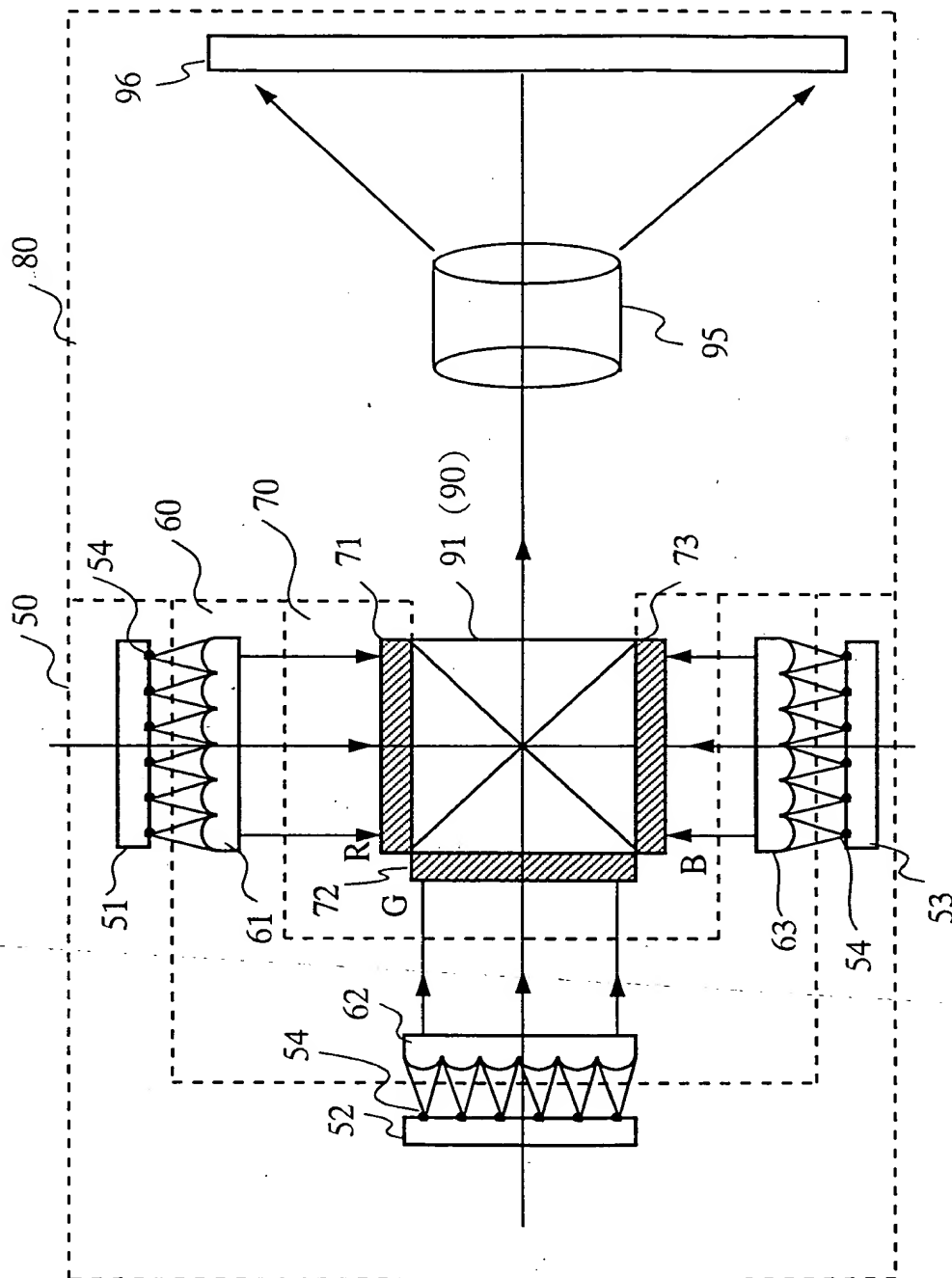


Fig.1



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Fig.2

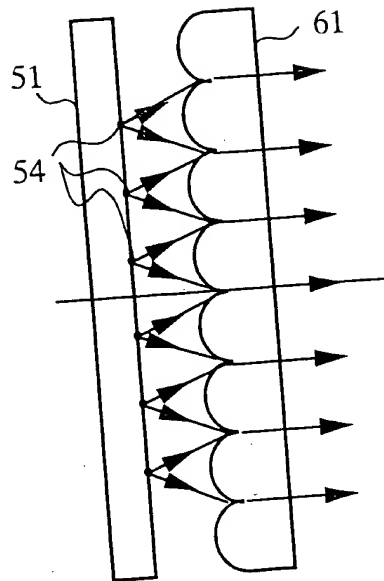
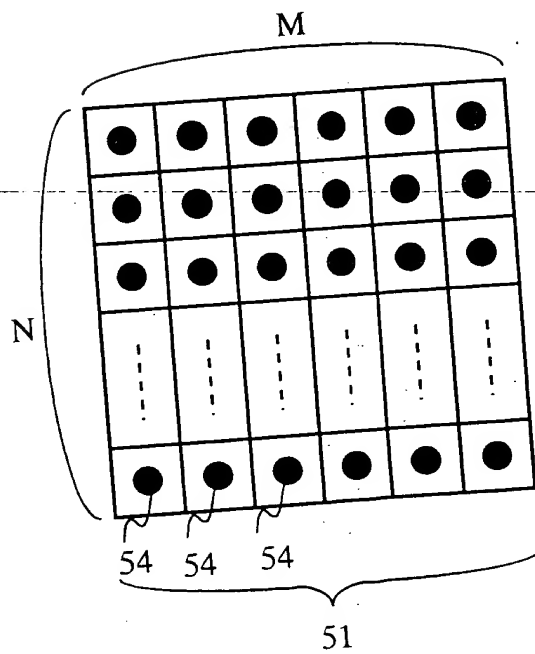
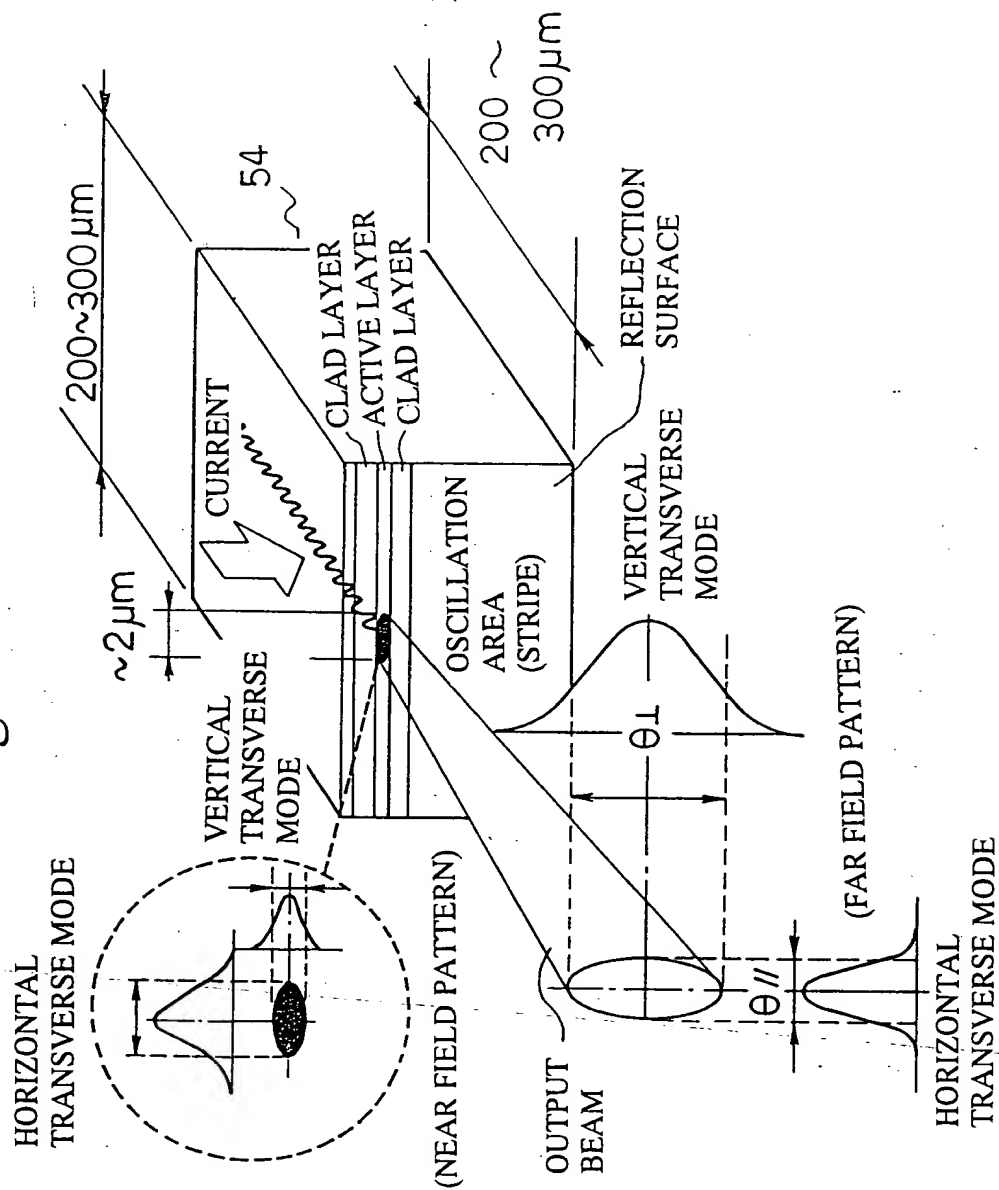


Fig.3



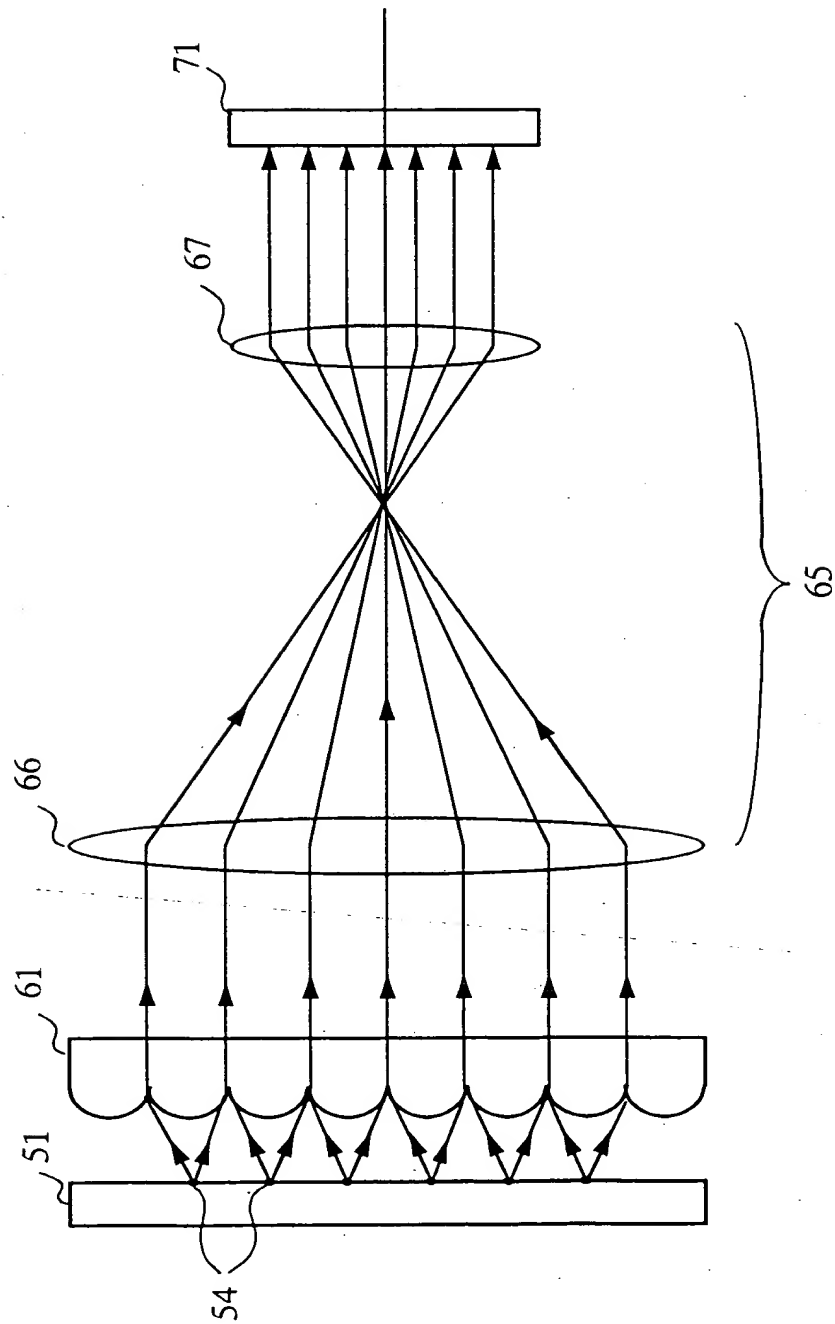
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Fig.4



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Fig.5



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Fig.6

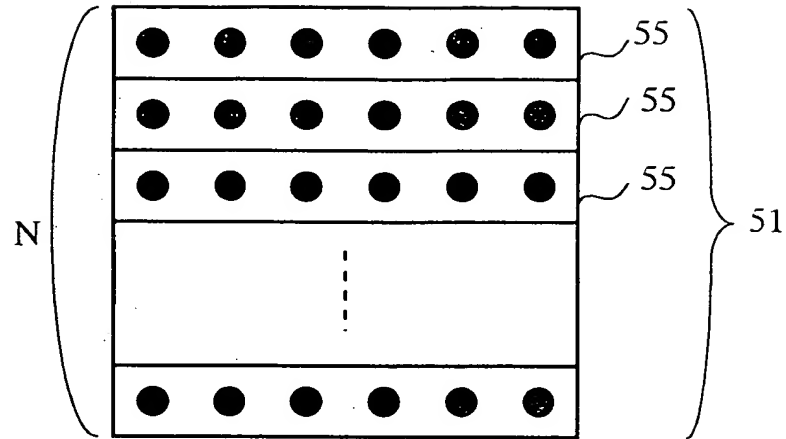
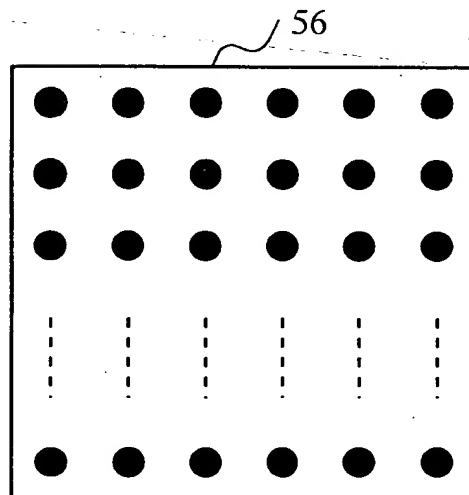
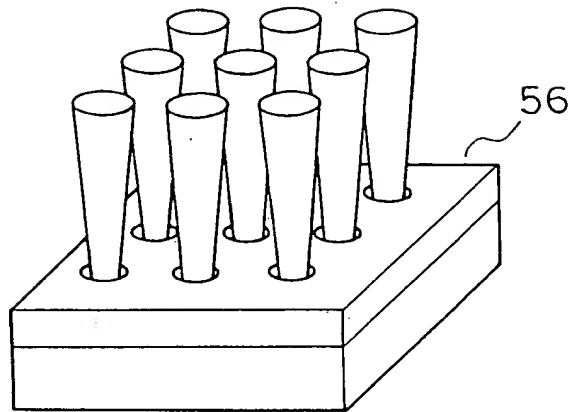


Fig.7



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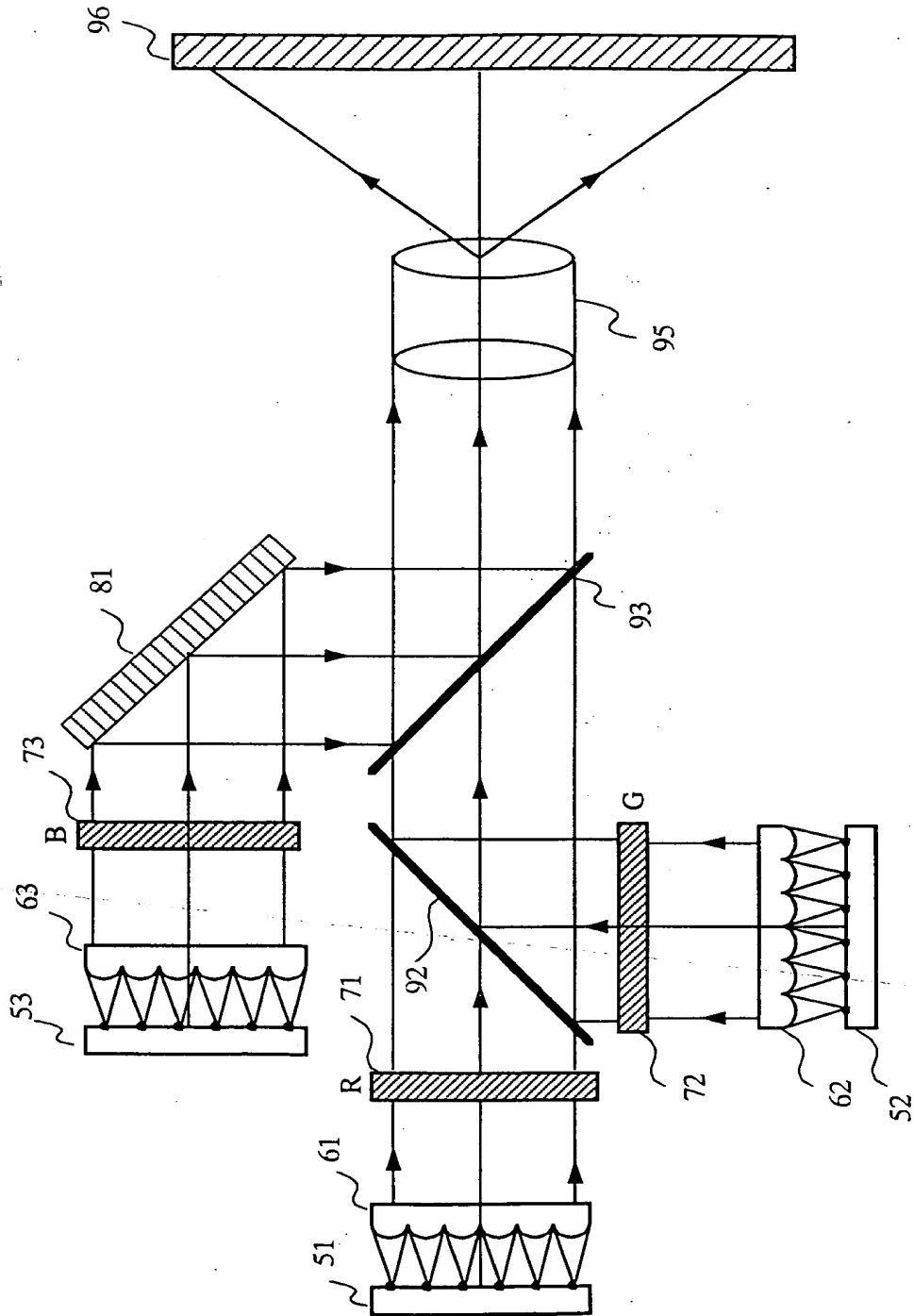
Fig.8



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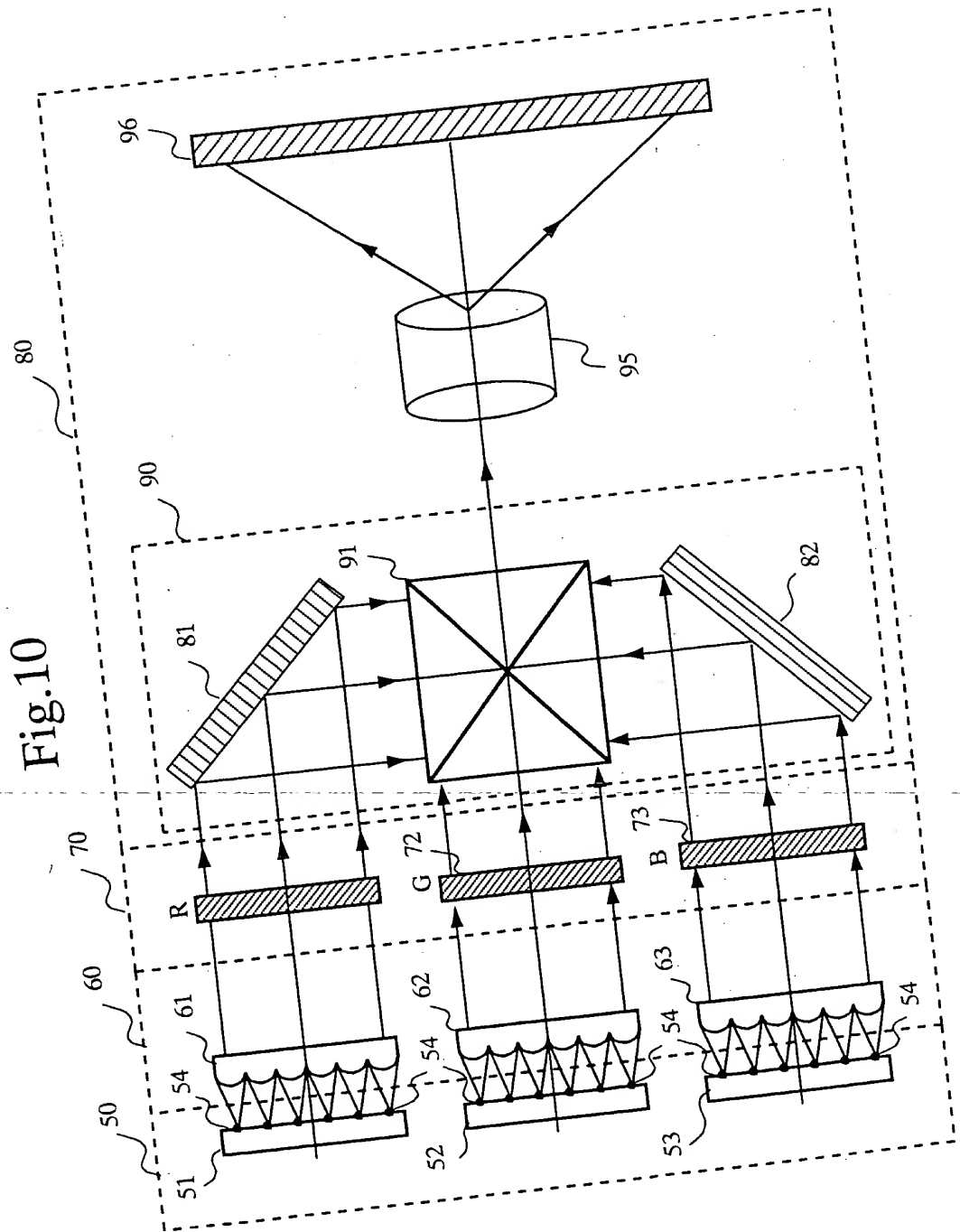
Fig. 9



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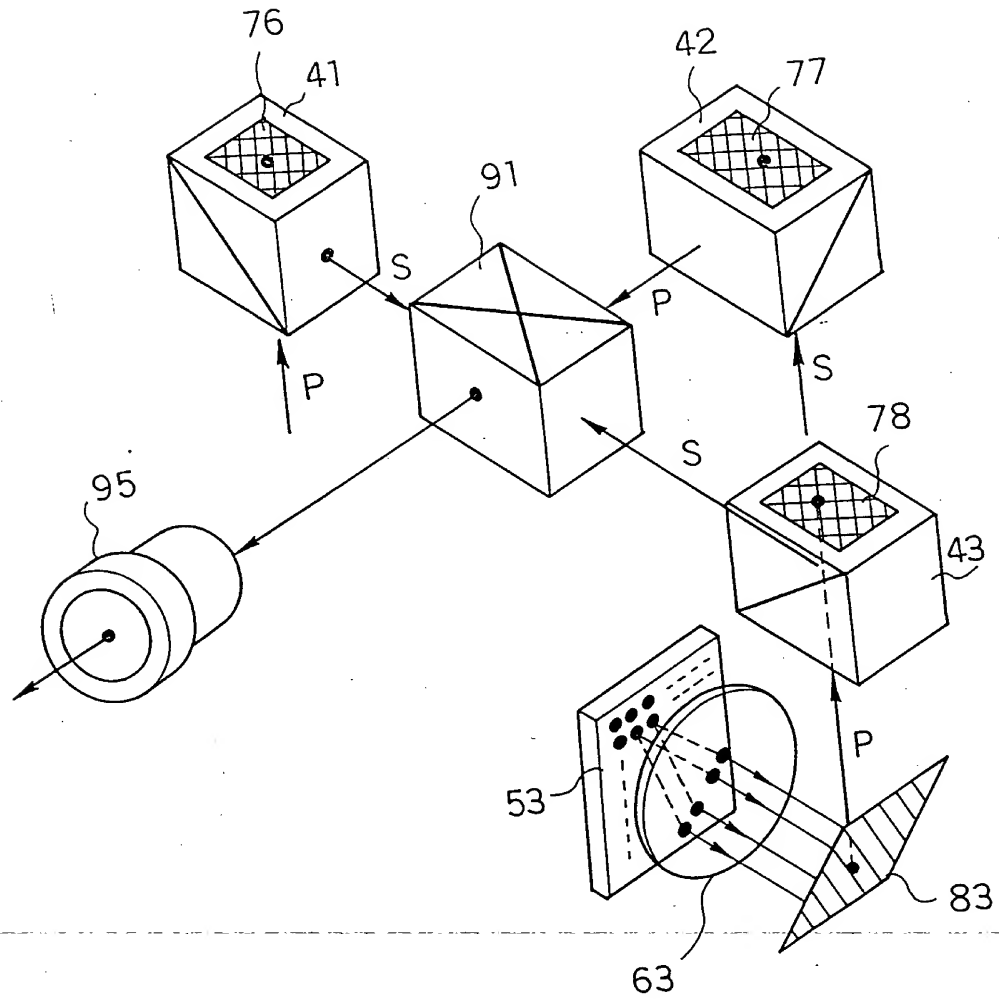
665TT-2TBECH60

Fig.10



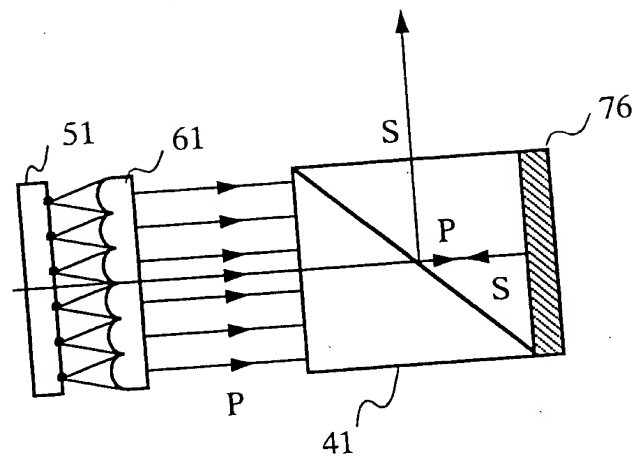
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Fig.11



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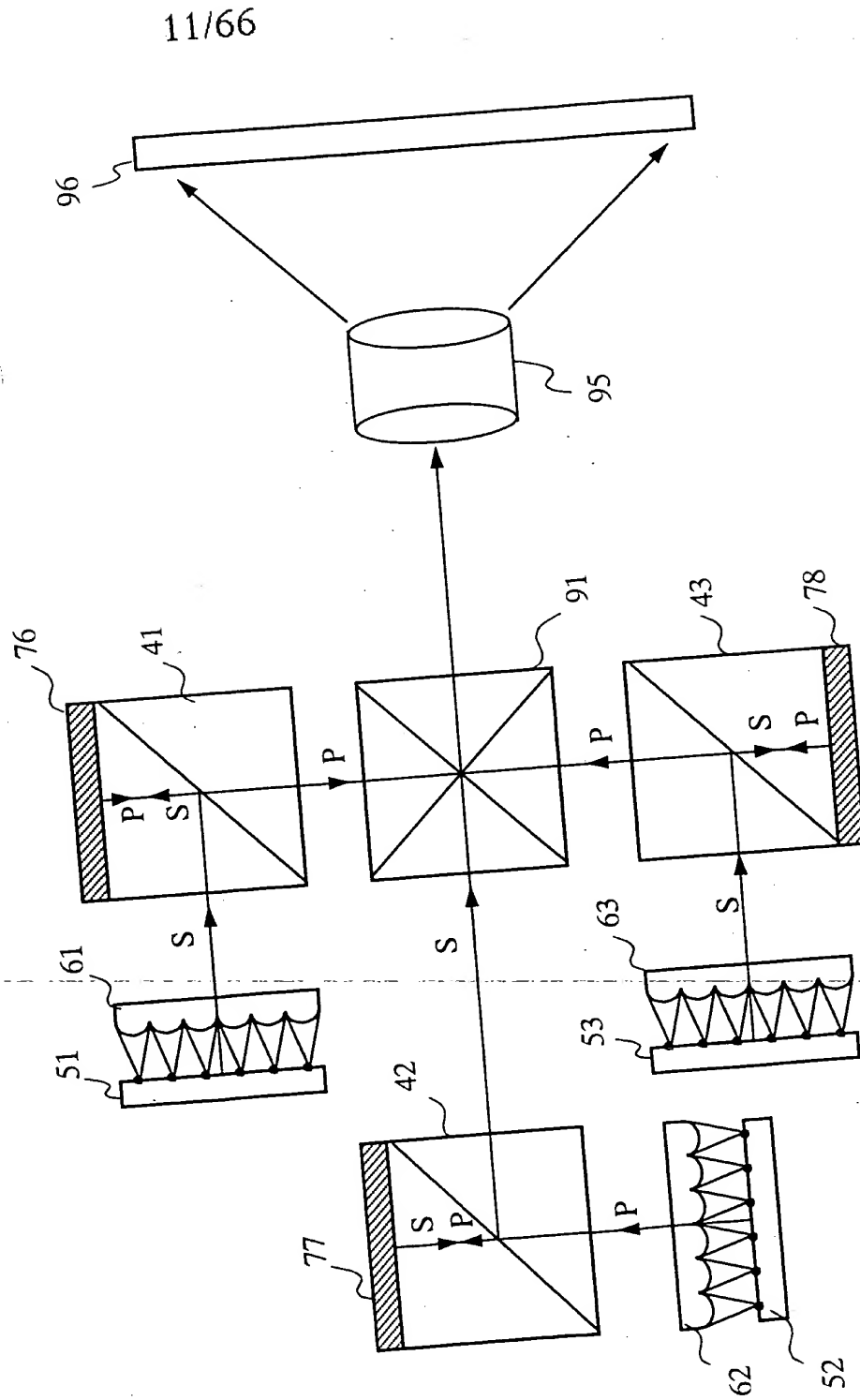
Fig.12



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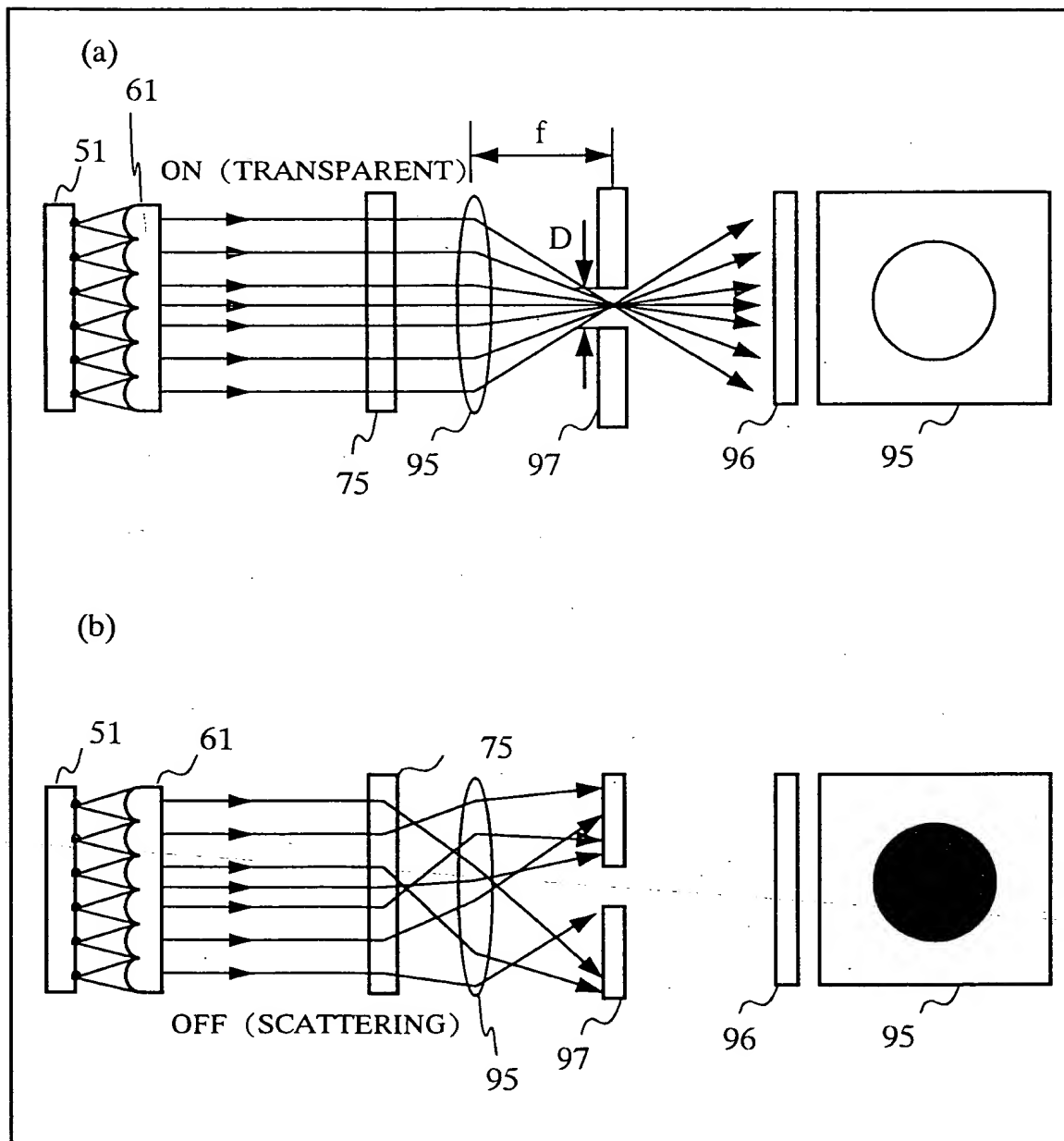
655TF-2FB2H60

Fig.13



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Fig.14



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Fig.16

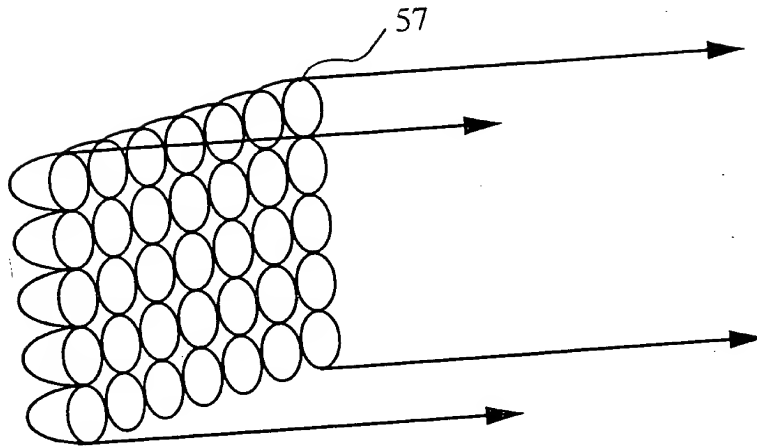
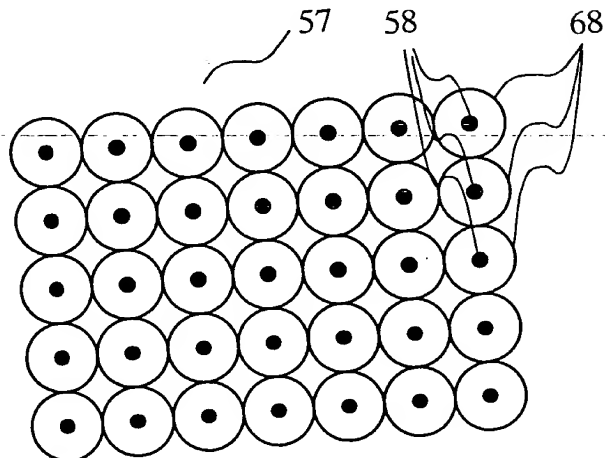
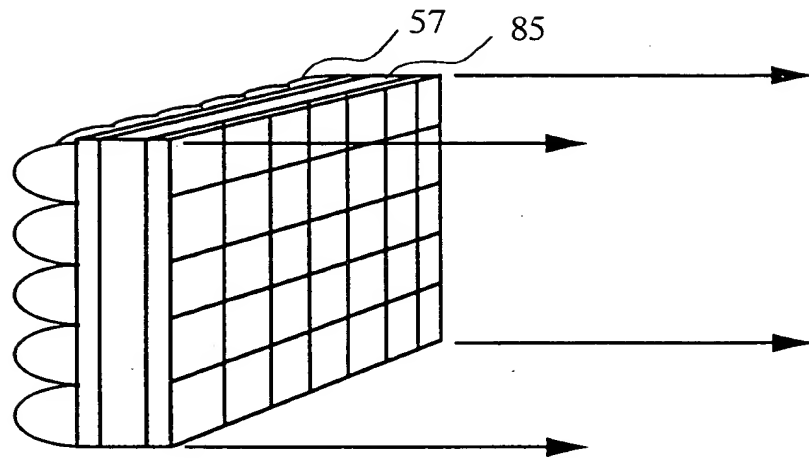


Fig.17



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Fig.18



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Fig.19

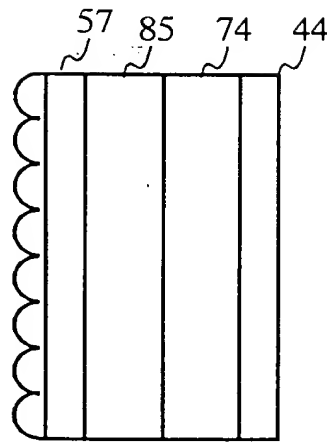
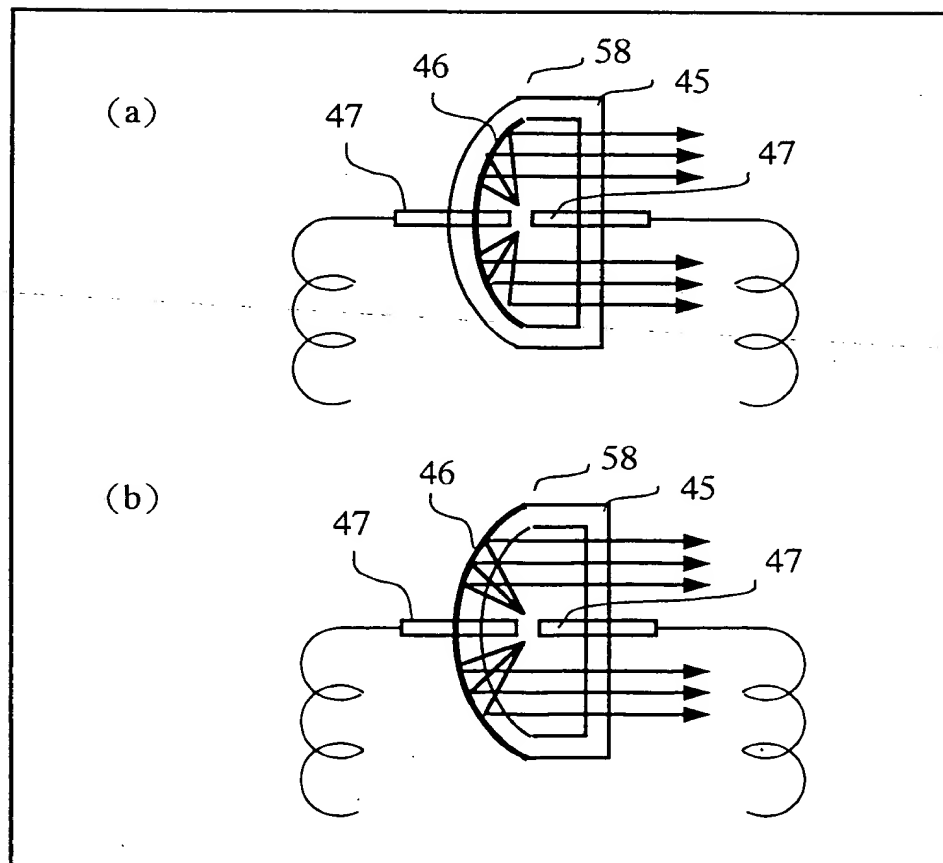


Fig.20



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Fig.21

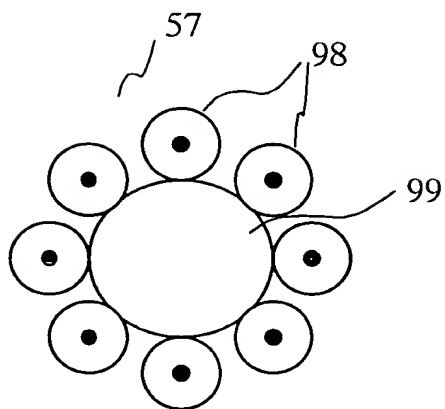


Fig.22

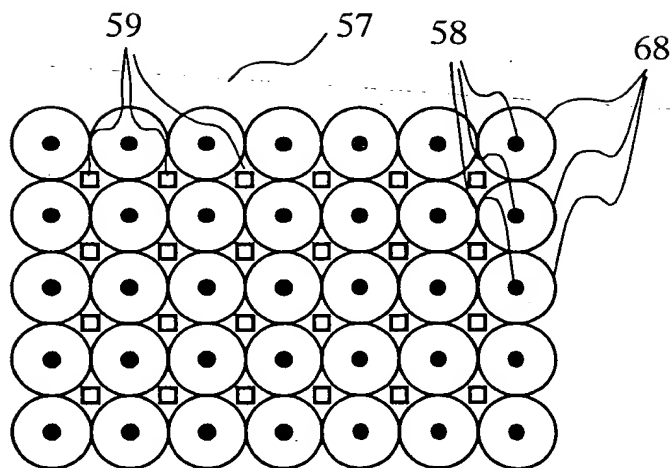
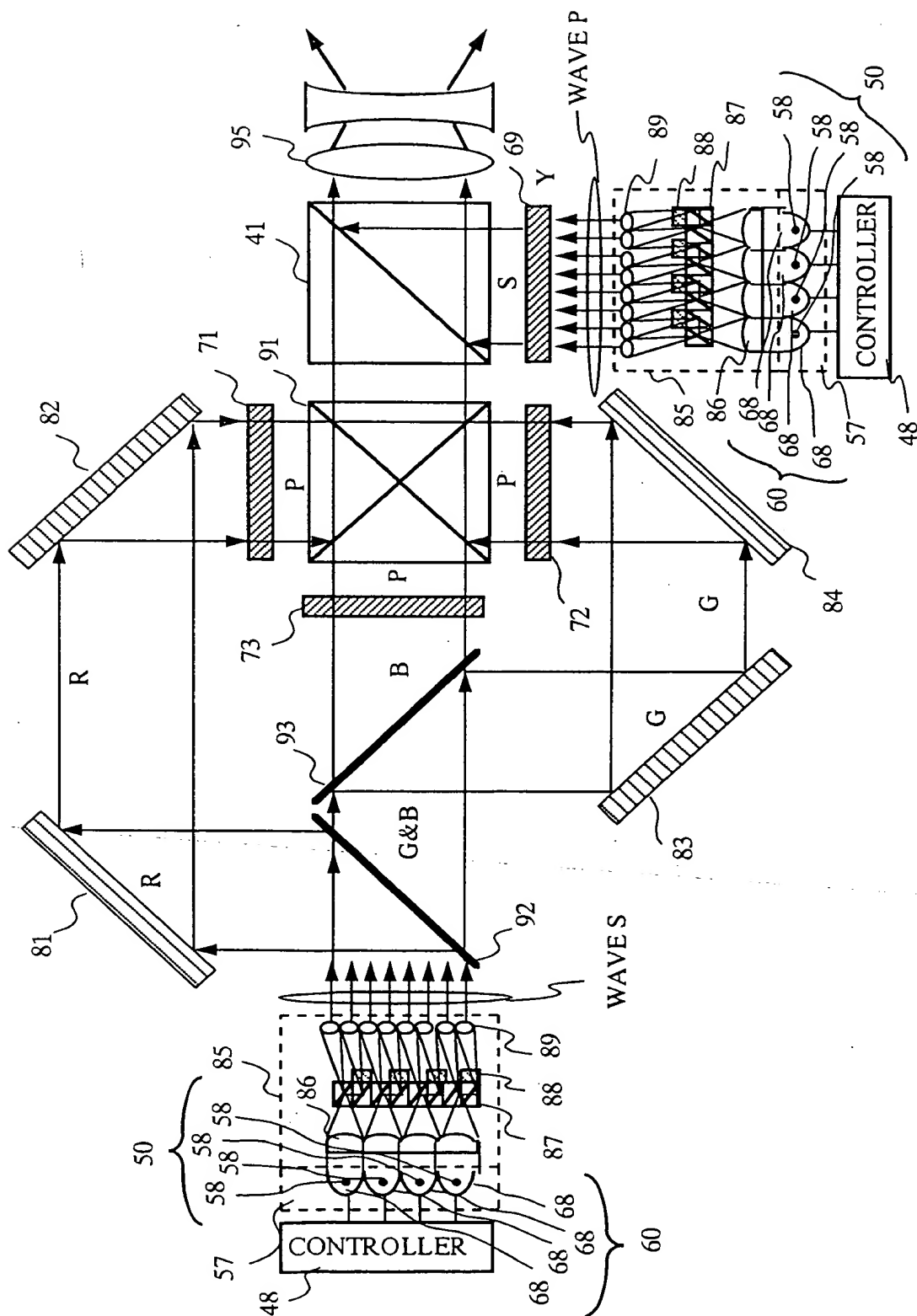
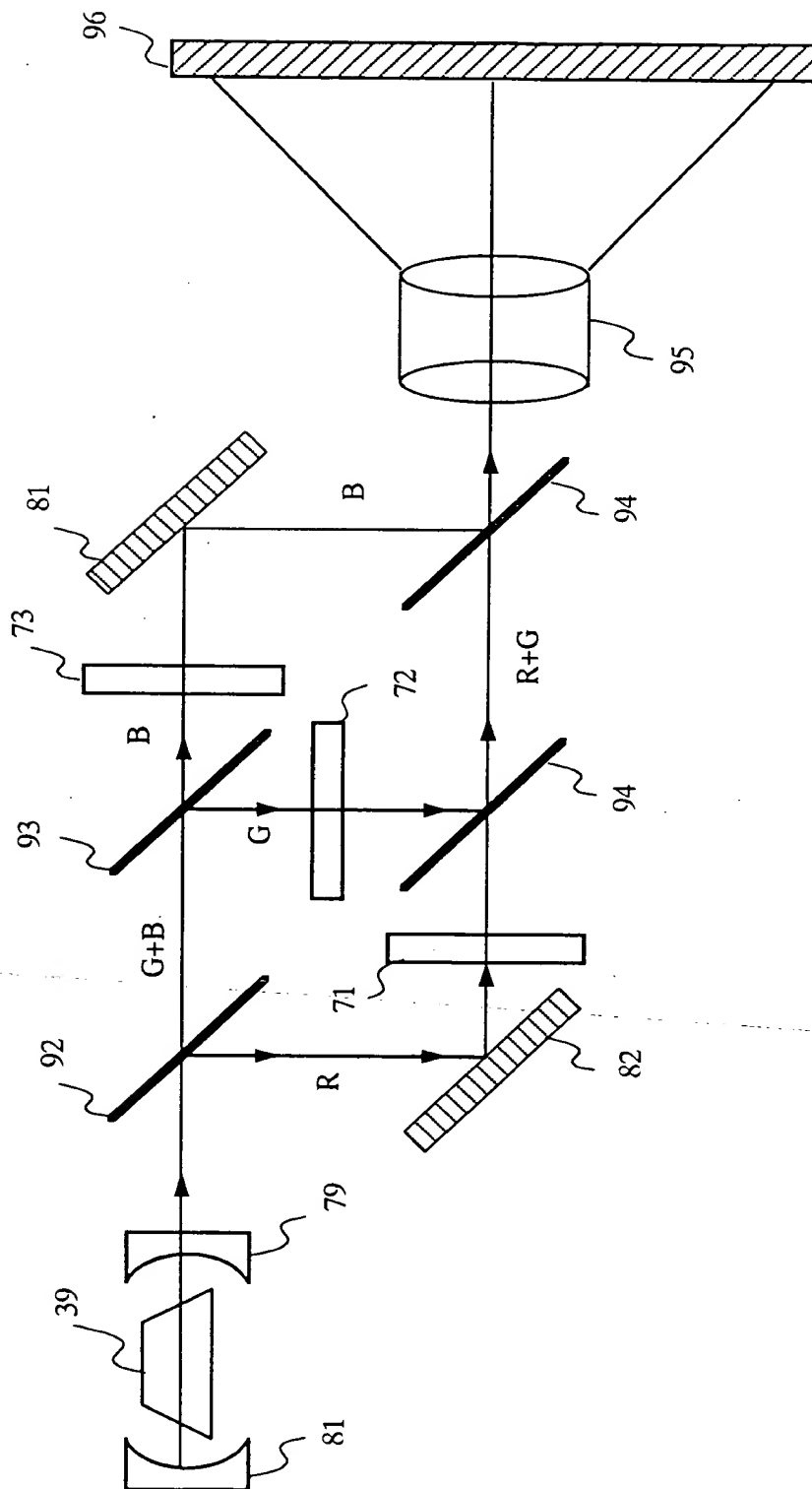


Fig. 23



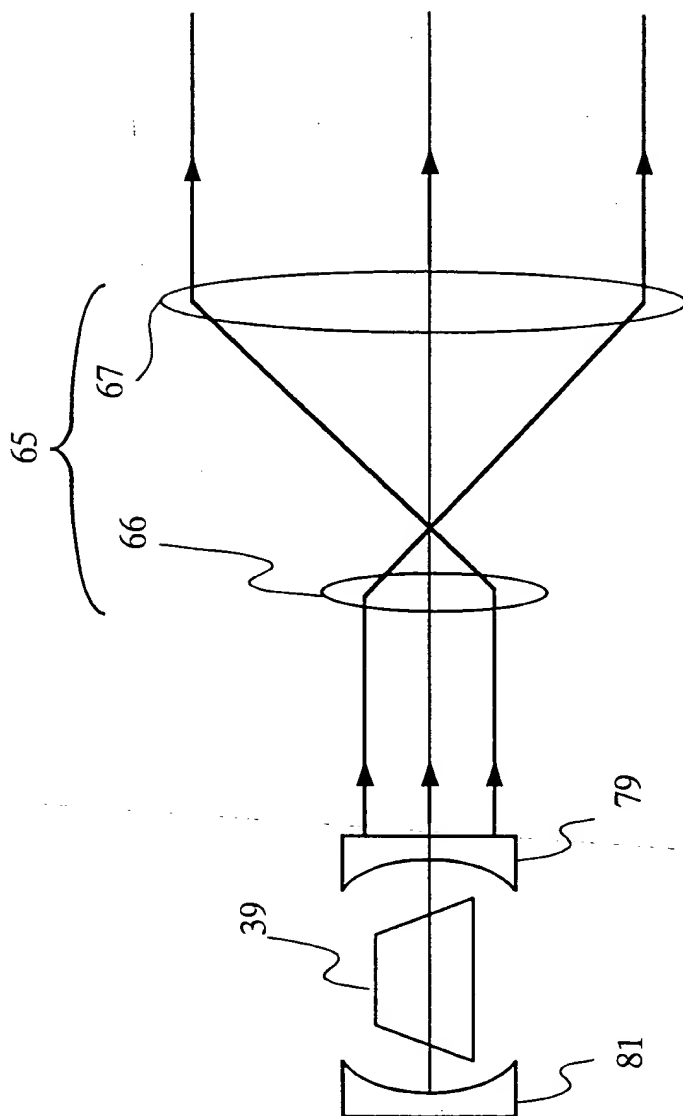
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Fig.24



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Fig.25



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Fig.26

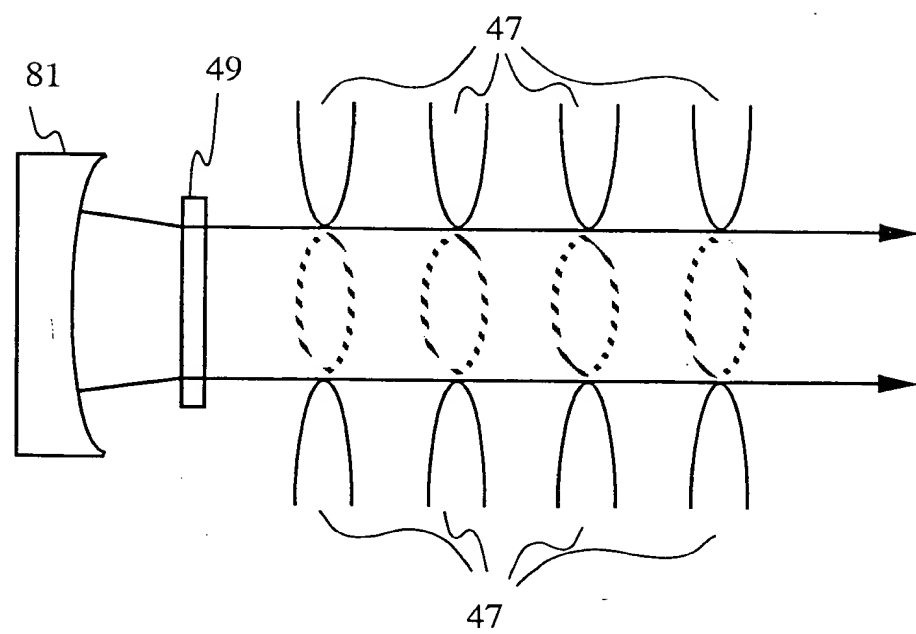
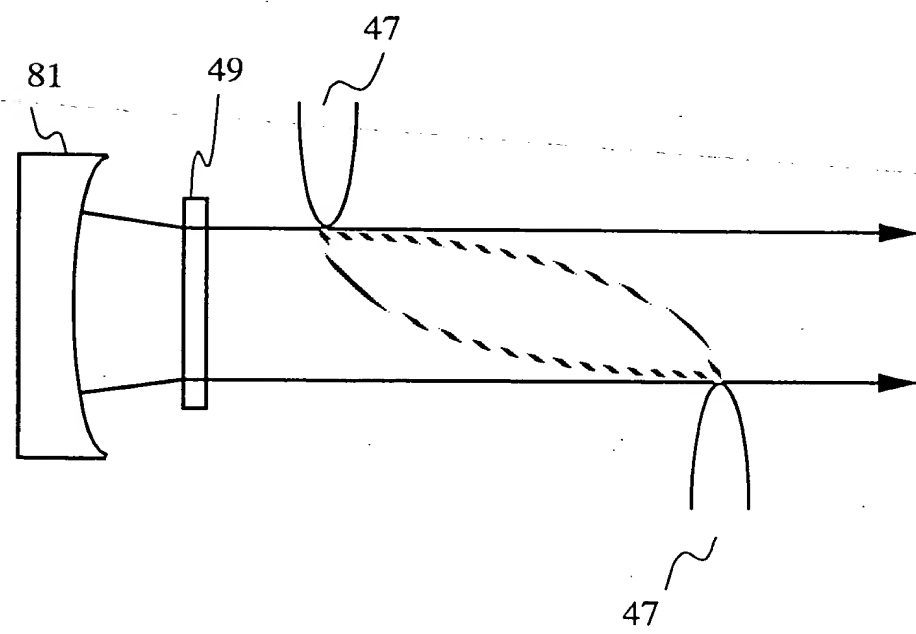


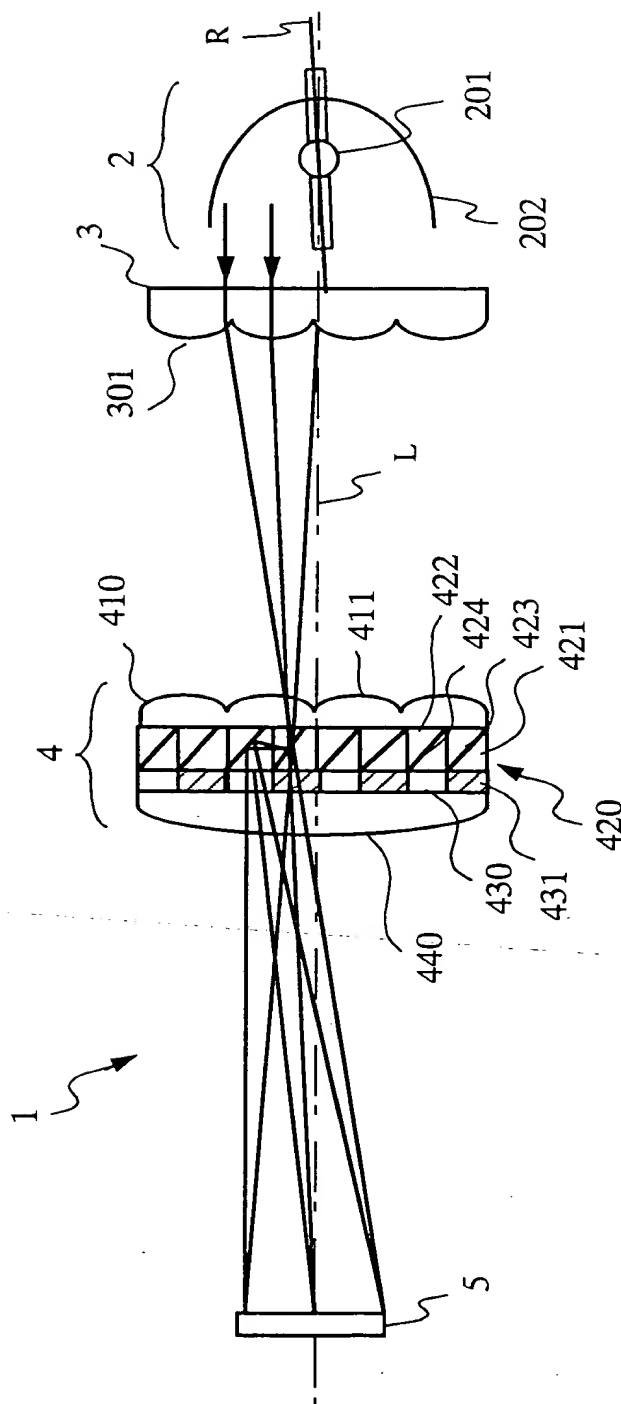
Fig.27



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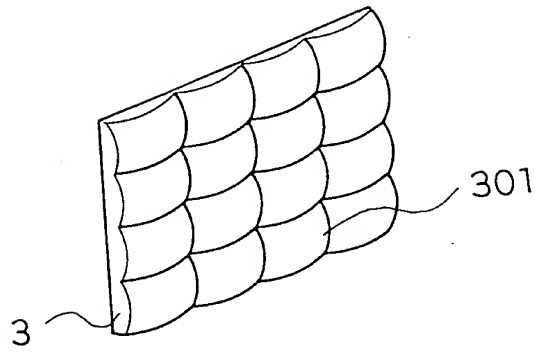
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Fig.28



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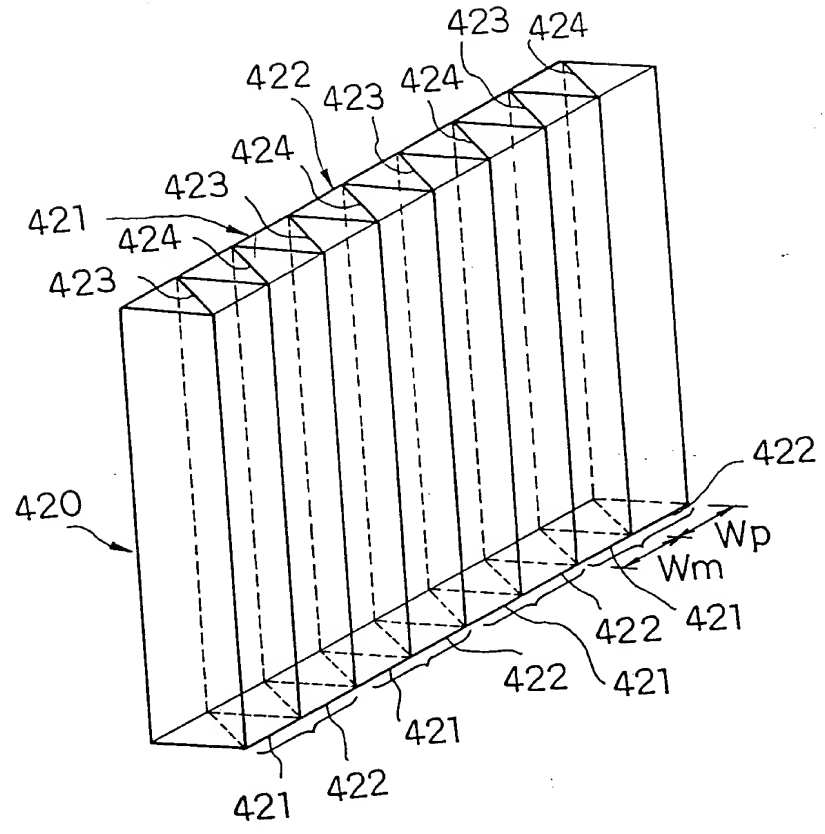
Fig.29



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Fig.30



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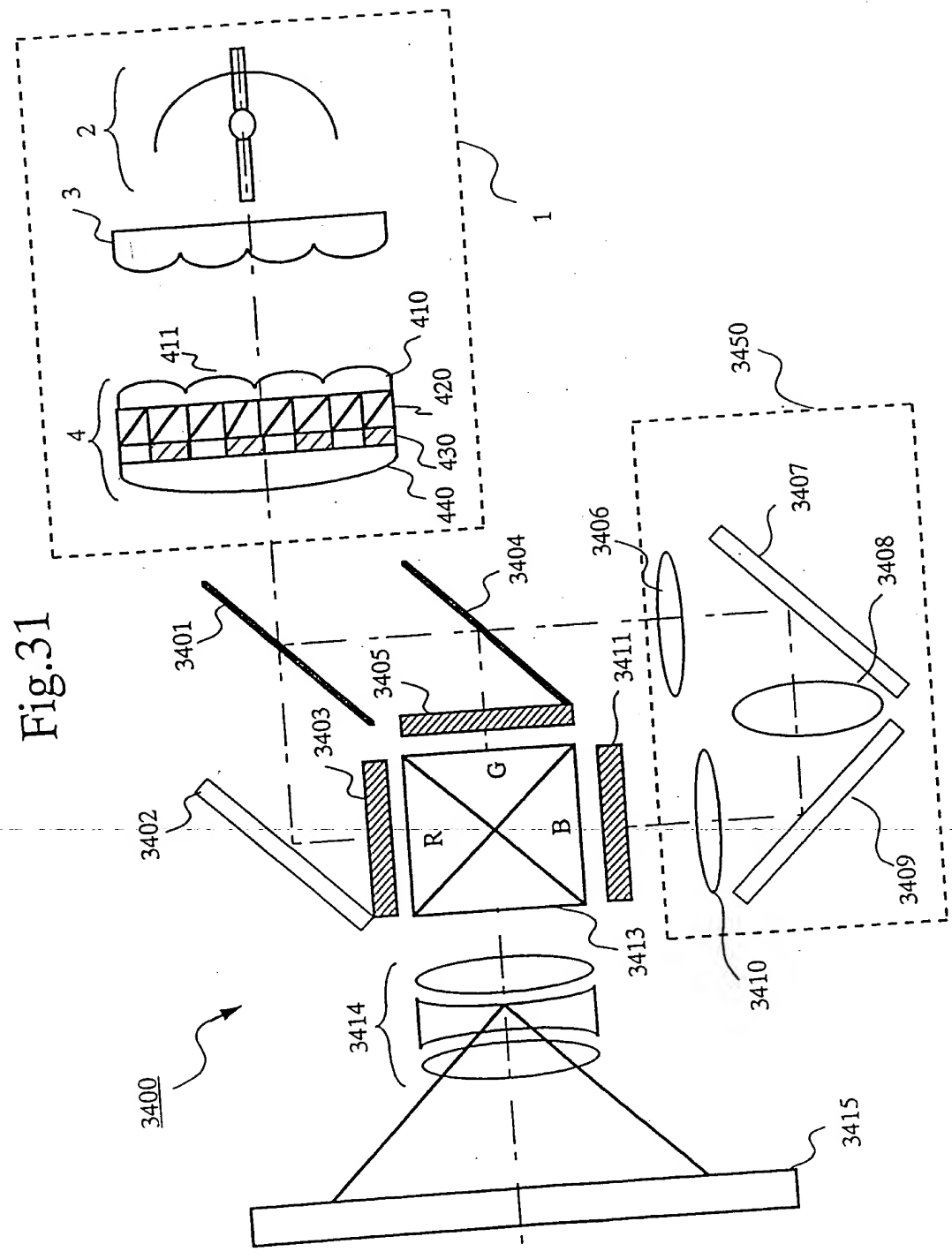


Fig. 31

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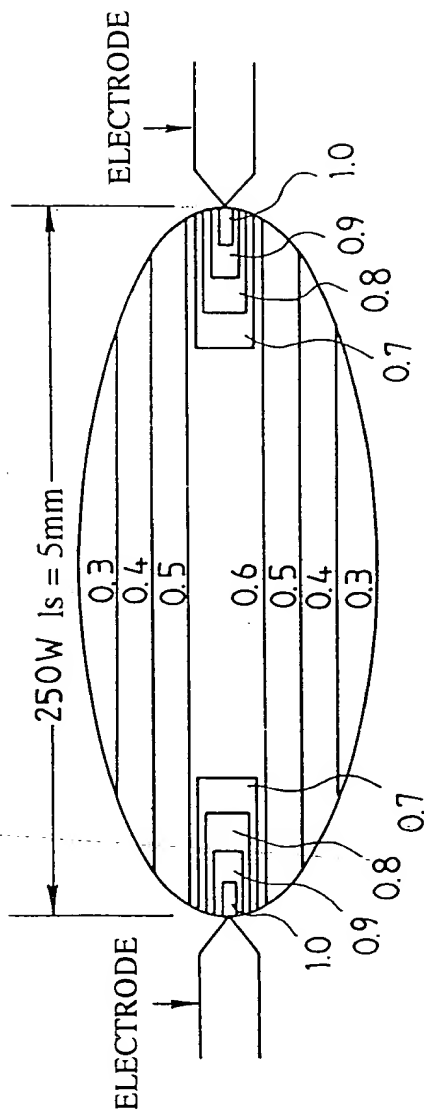
Fig.32

LAMP	METAL HALIDE	XENON	HALOGEN
LUMINOUS EFFICIENCY	80 lm/W	30 lm/W	30 lm/W
COLOR TEMPERATURE	9000 K	6500 K	3000 K
LIFE TIME	2000 H	500 H	100 H

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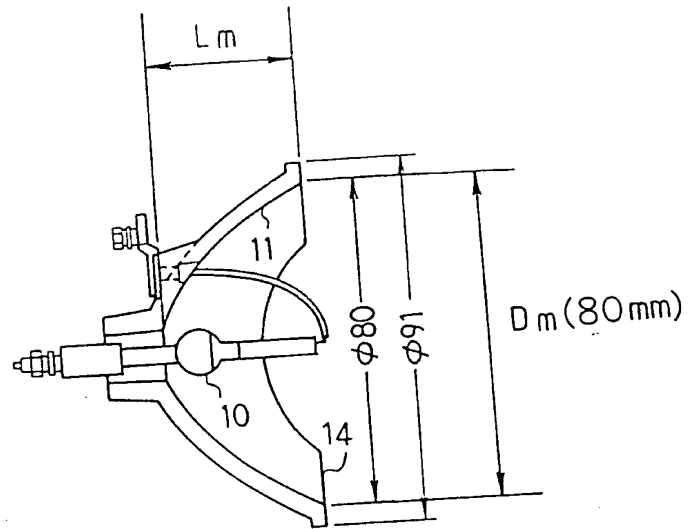
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Fig.33



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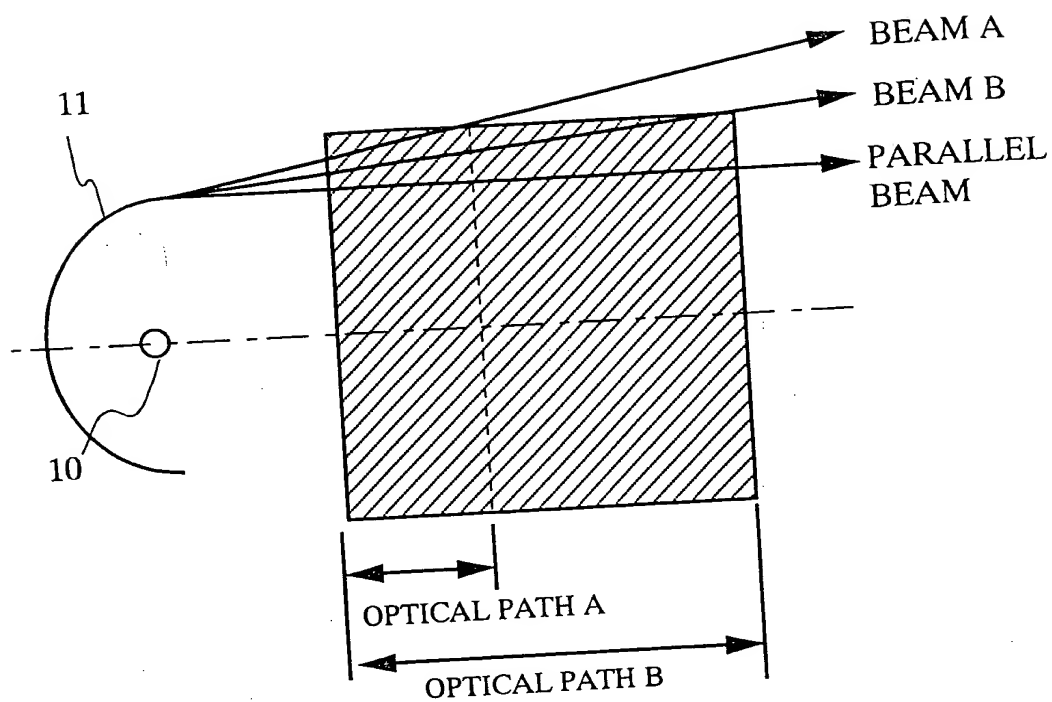
Fig.34



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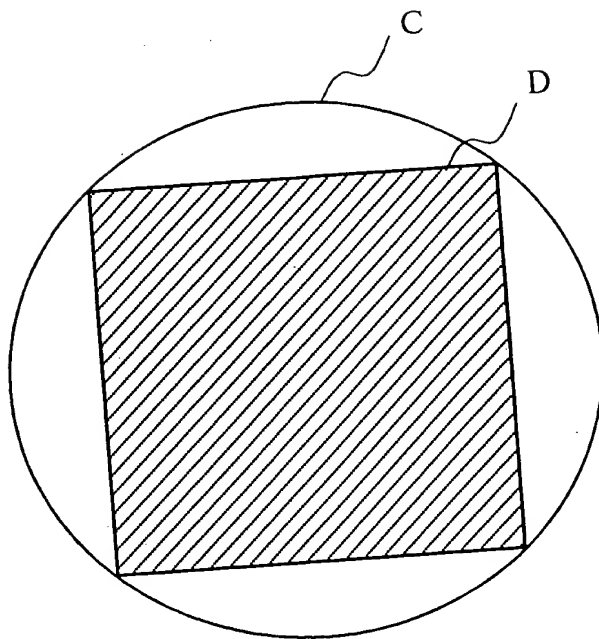
Fig.35



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Fig.36



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Fig.37

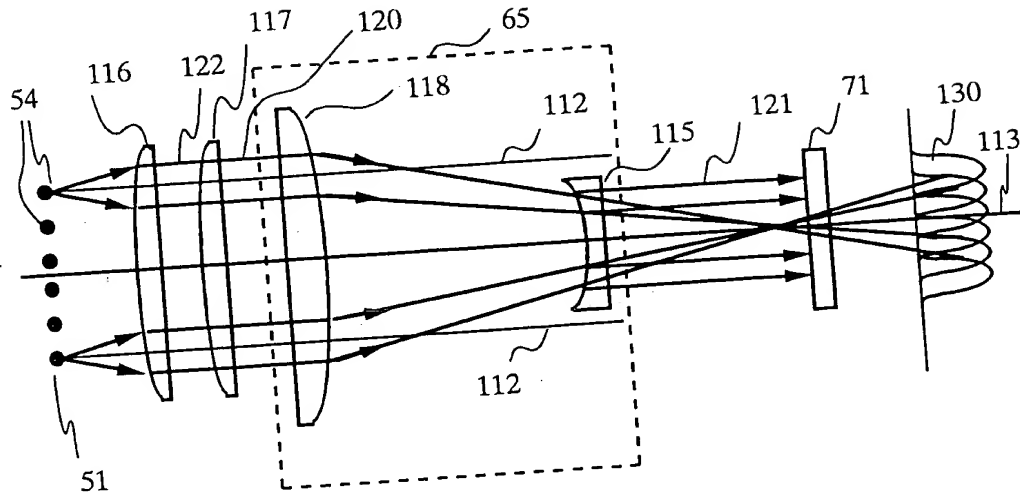
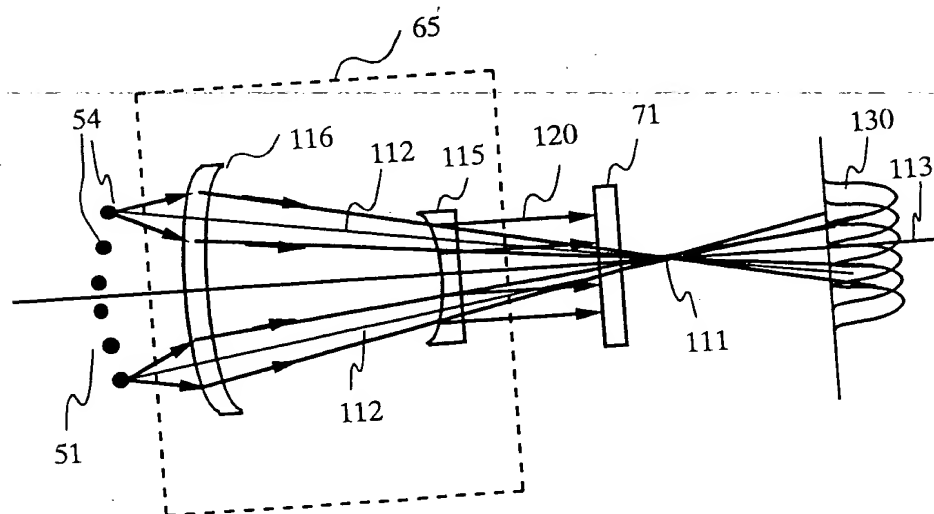


Fig.38



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Fig.39

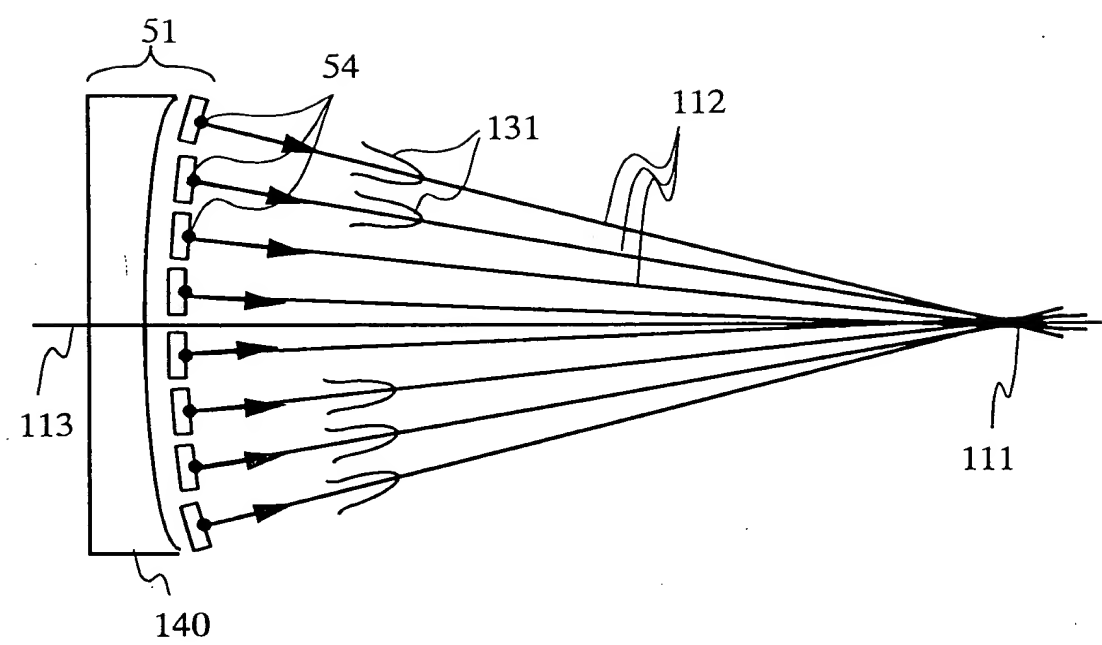
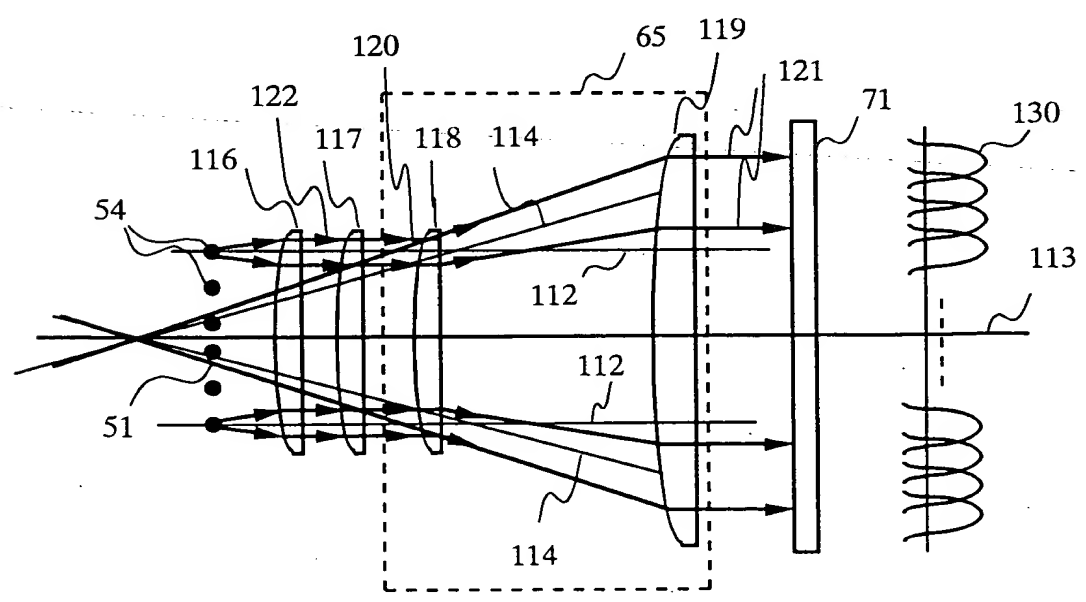


Fig.40



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Fig.41

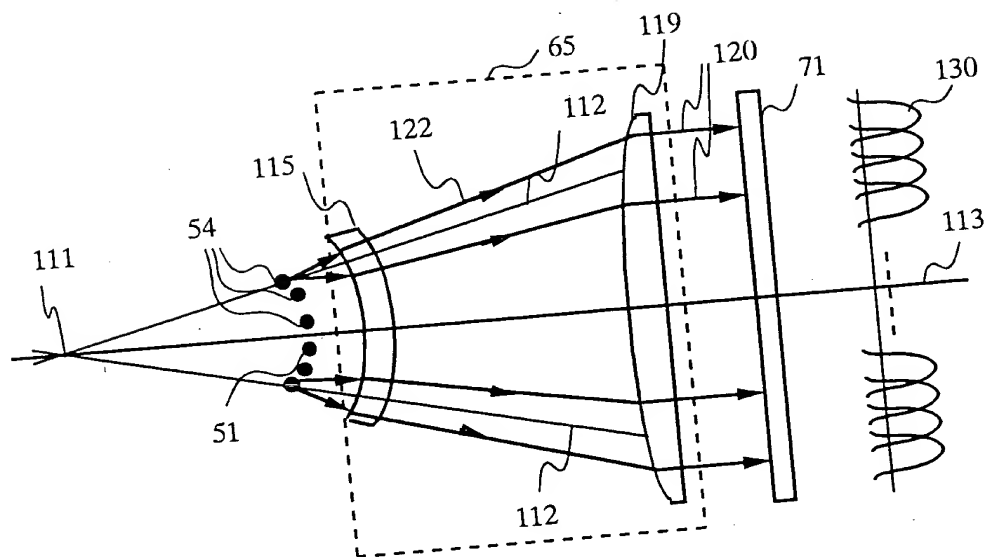
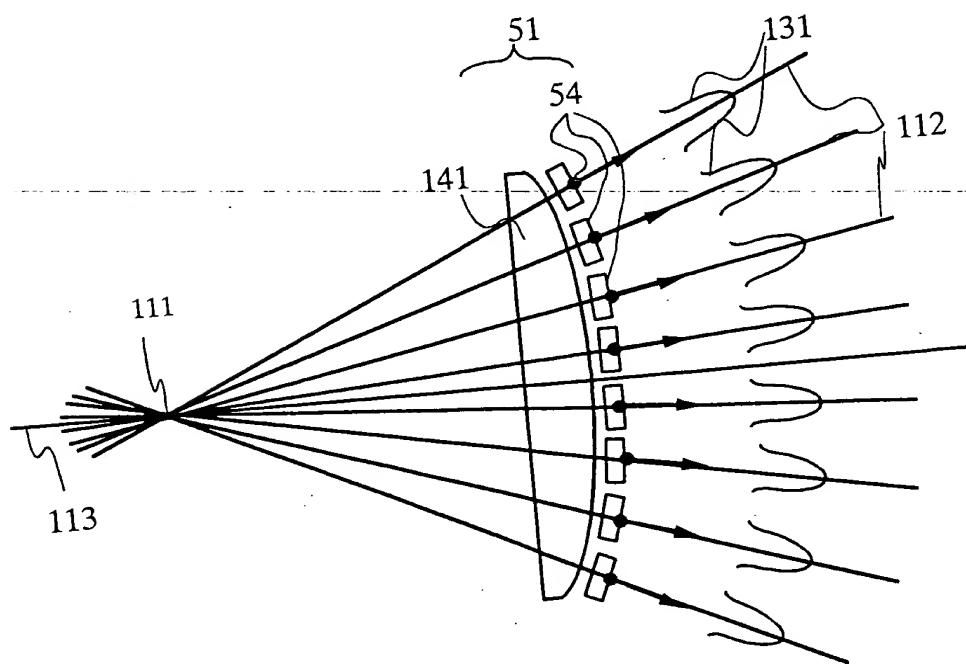


Fig.42

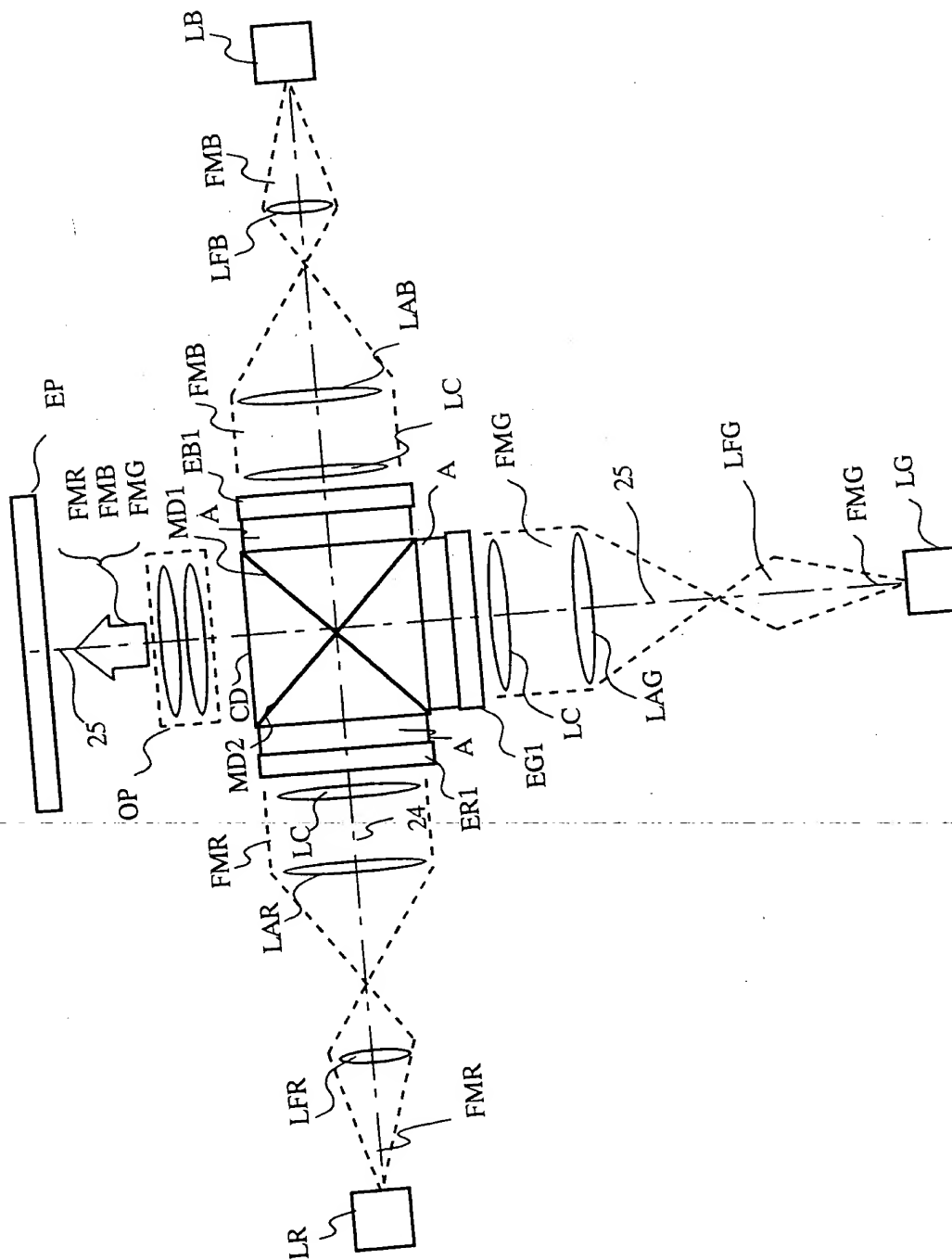


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Fig. 43



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Fig. 44

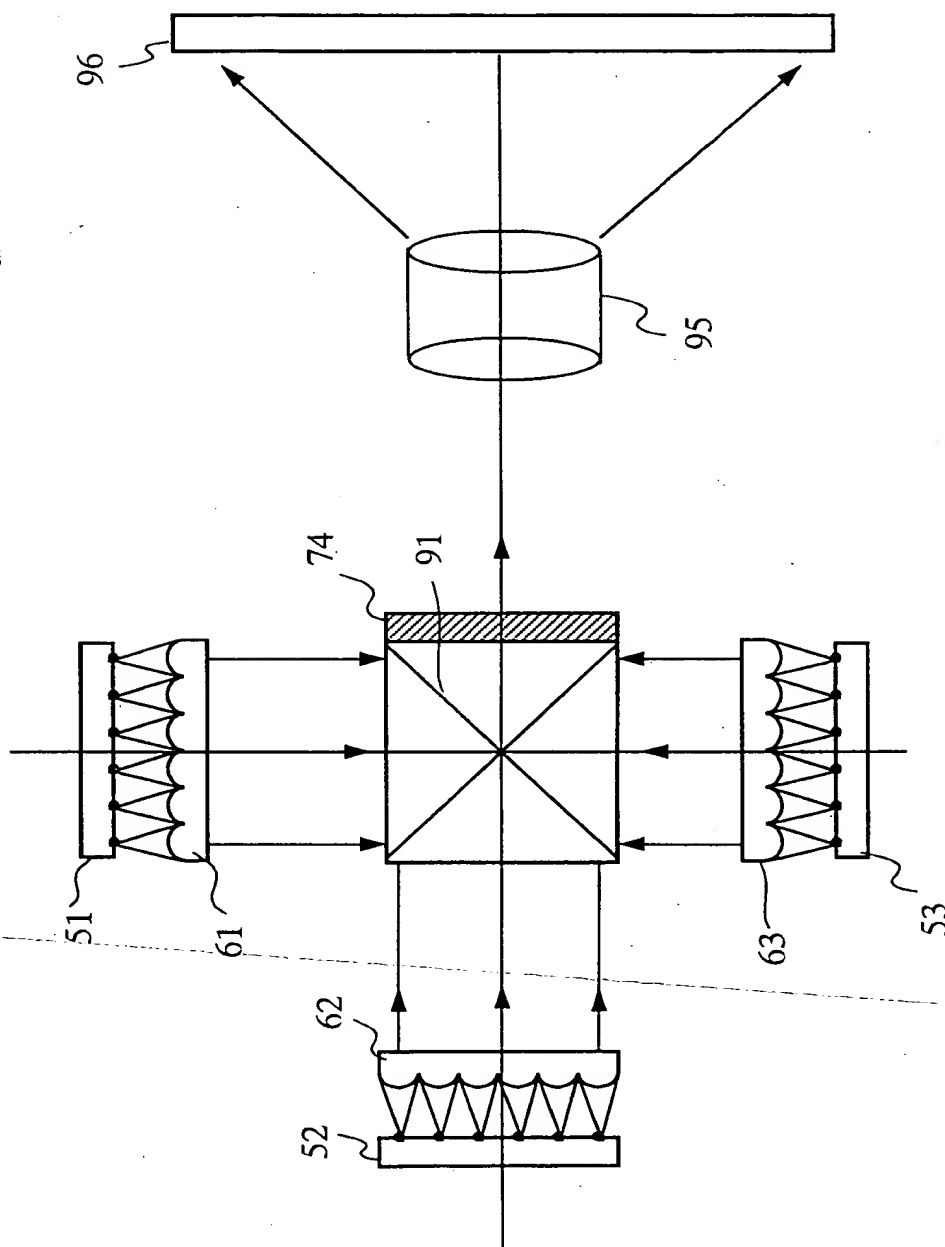
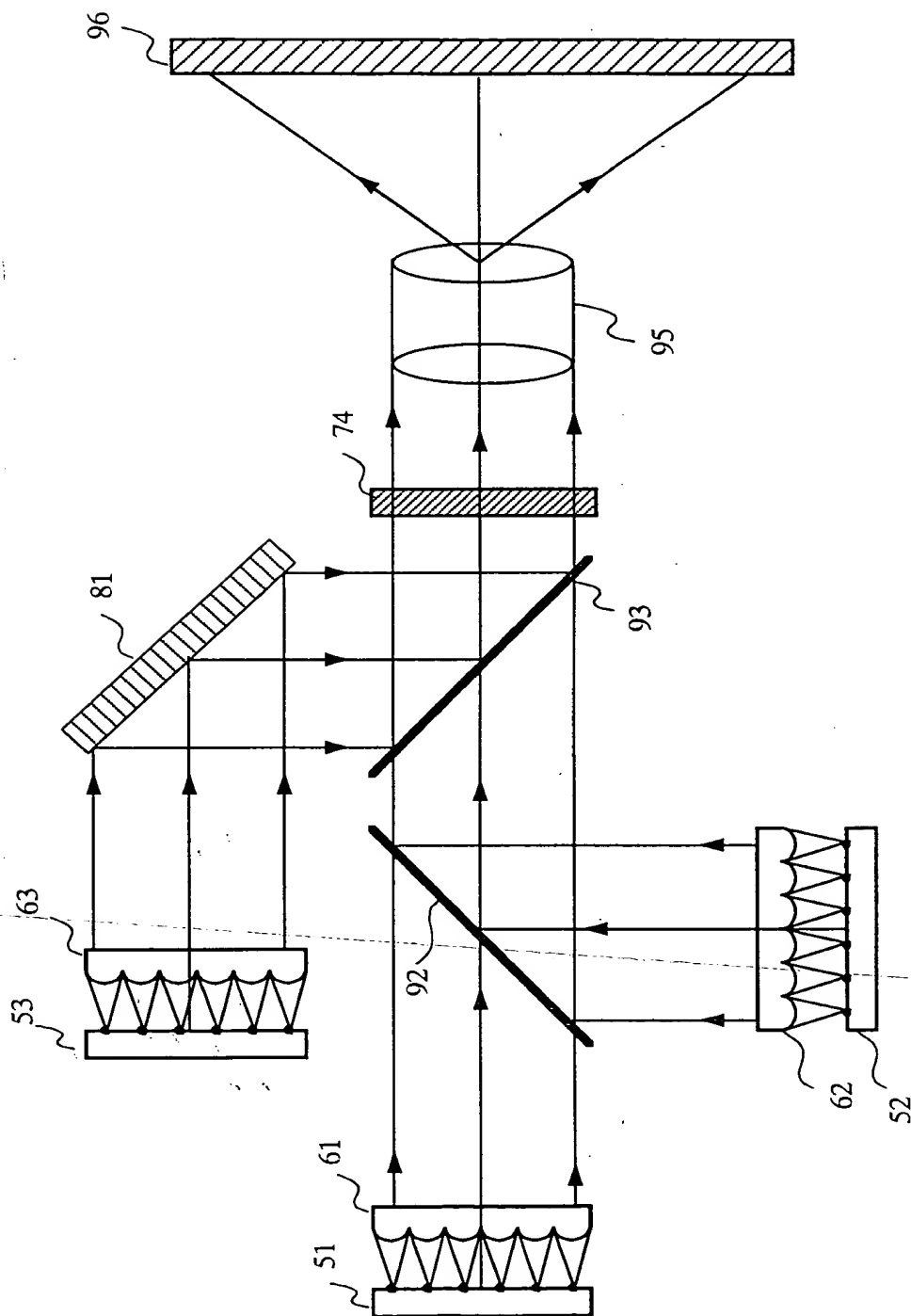
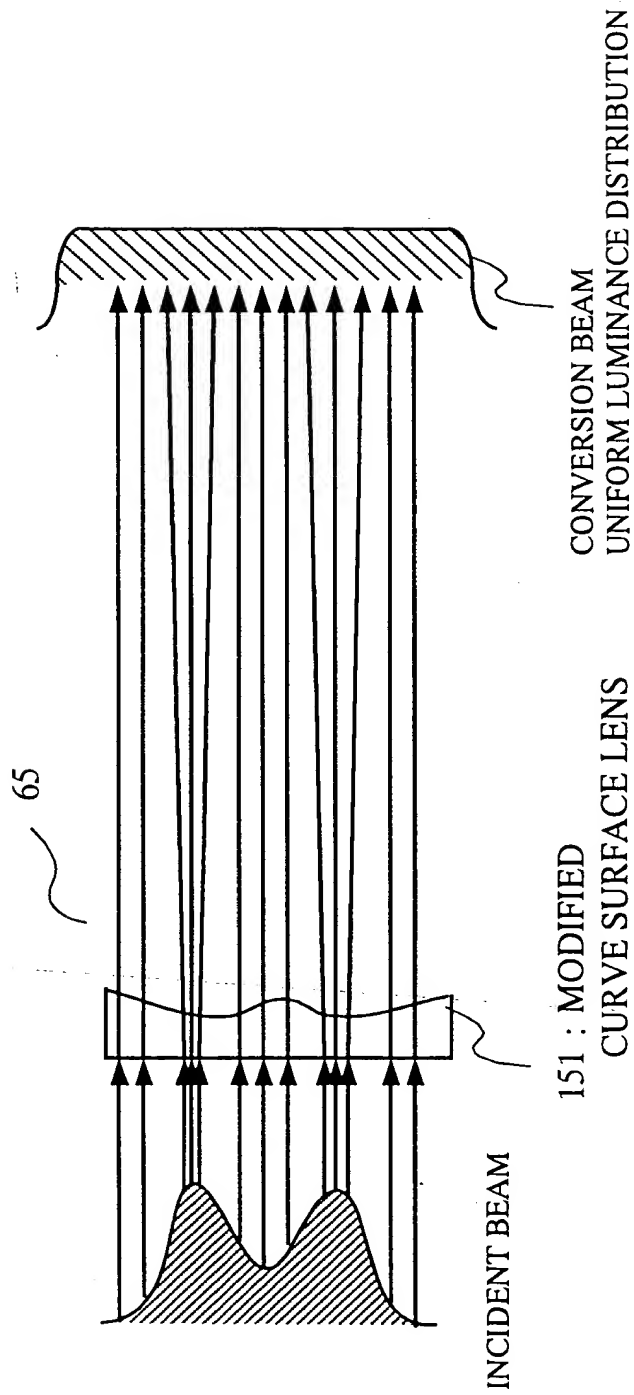


Fig.45



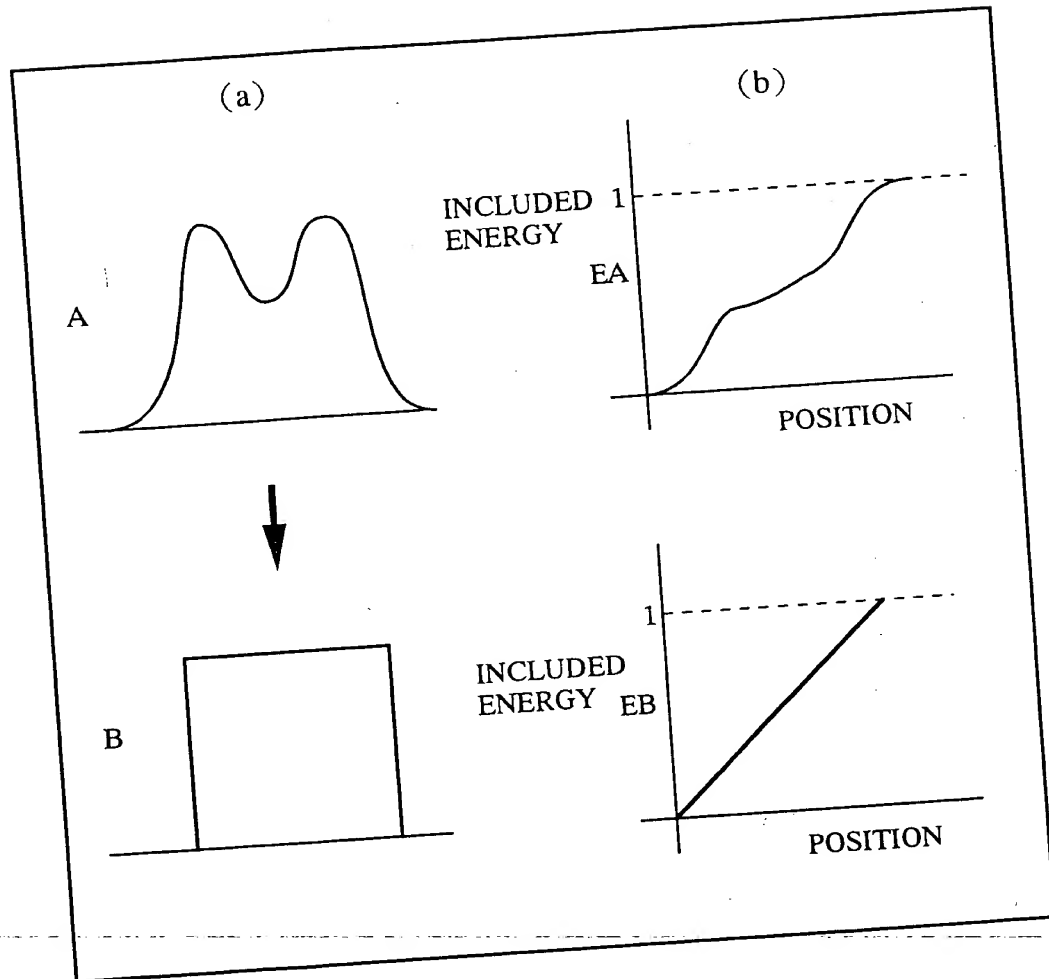
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Fig.46



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Fig.47



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Fig.48

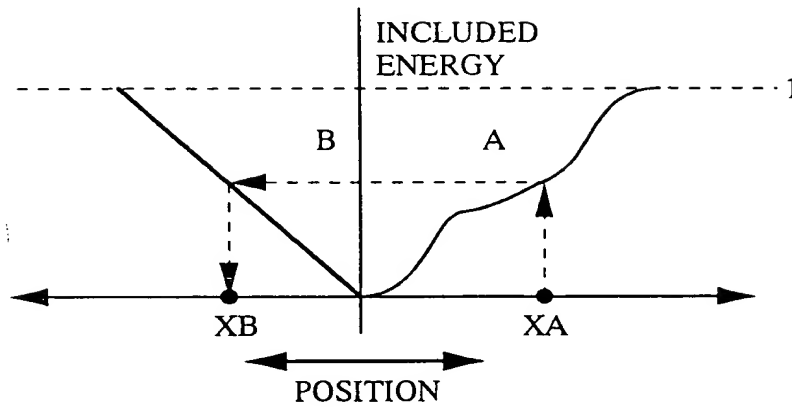
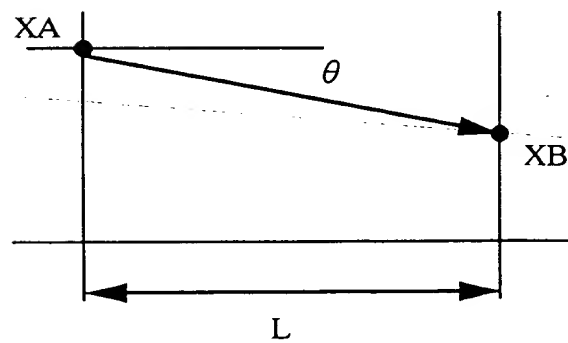
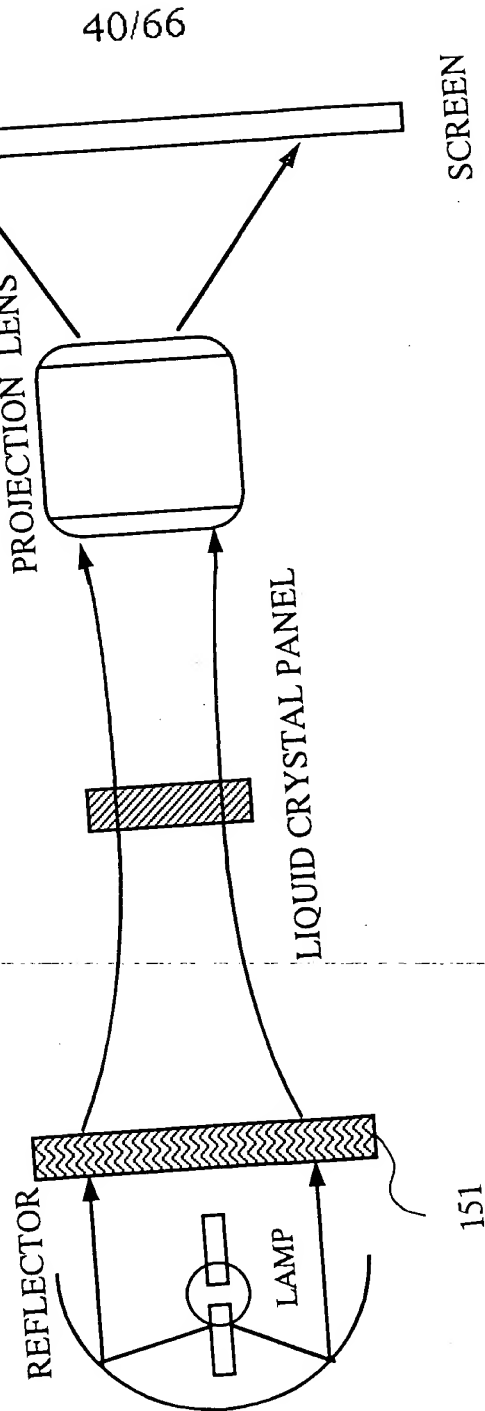


Fig.49



$$\tan \theta = \frac{X_A - X_B}{L} = \frac{X_A - T(X_A)}{L} = \theta(X_A, L)$$

Fig.50



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Fig.51

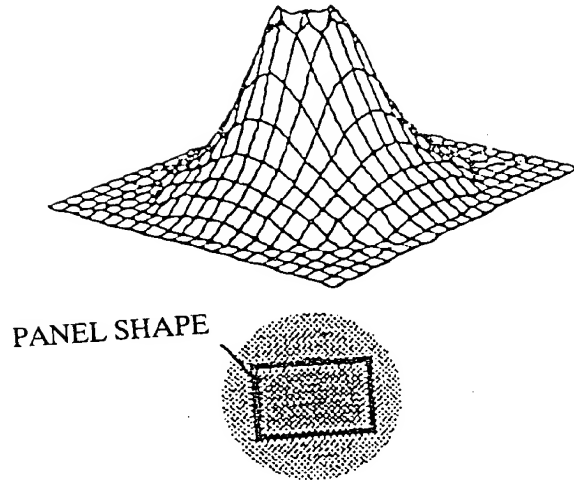
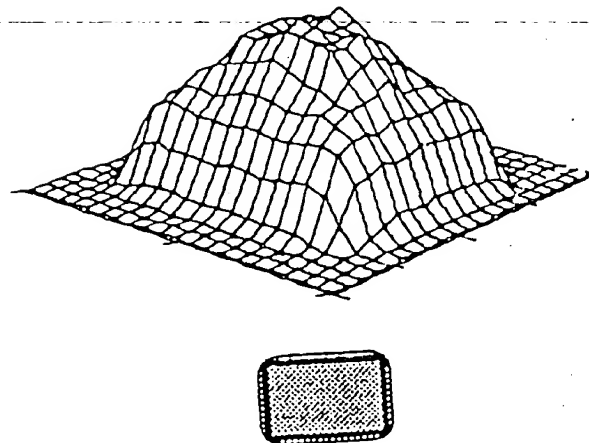


Fig.52



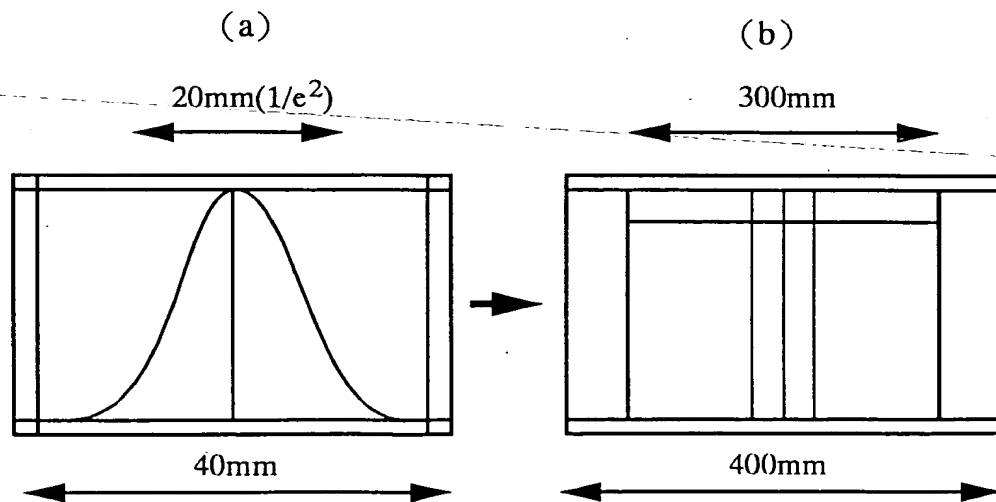
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Fig.53

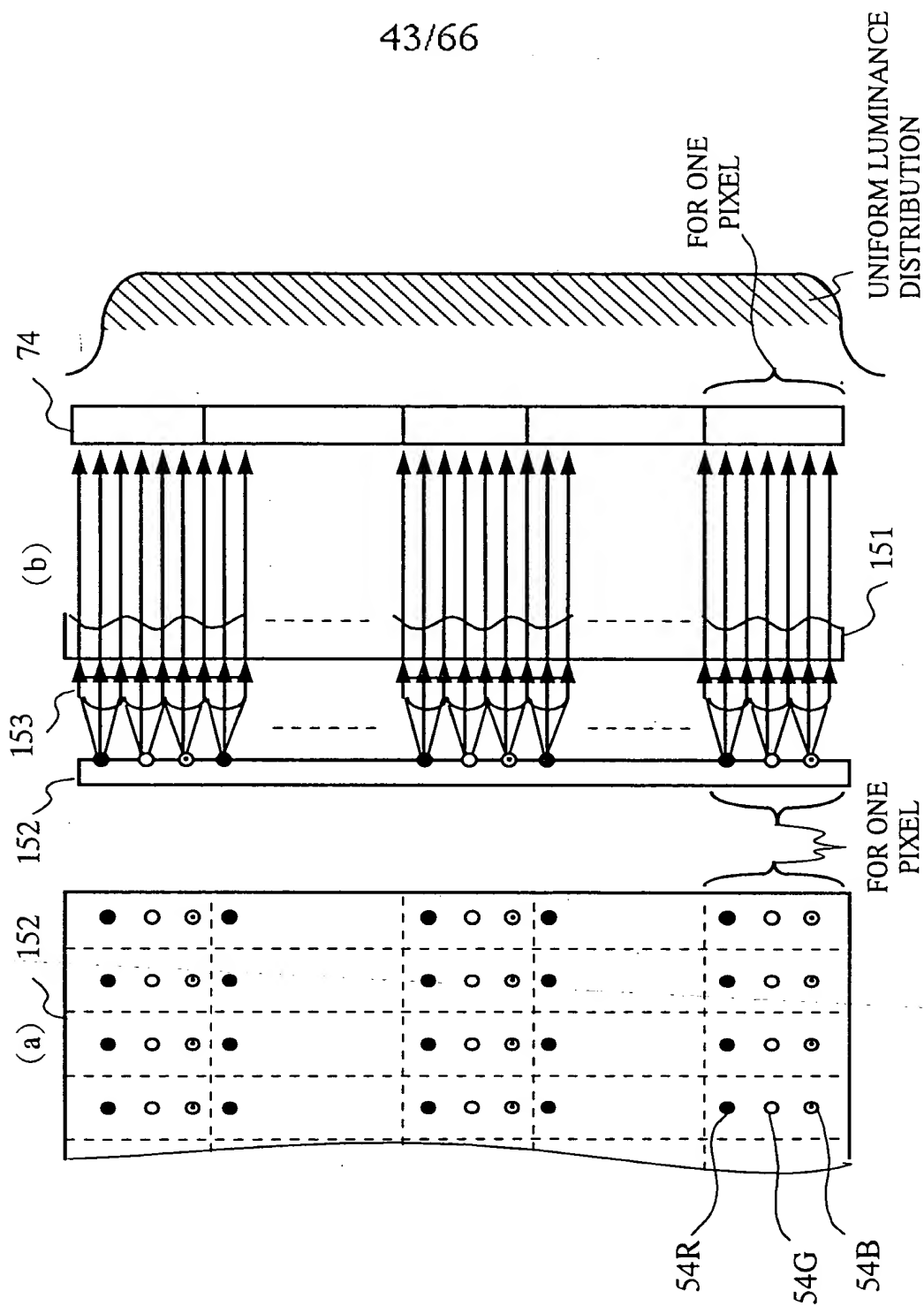
LAMP 150W、 USING 1.3" COLOR PANEL	REGULAR LENS	MODIFIED CURVE SURFACE LENS
TOTAL LUMINOUS FLUX AMOUNT [lm]	121	261
CENTER ILLUMINANCE[Lux]	410	731
CIRCUMFERENTIAL ILLUMINANCE [Lux]	131	438
ILLUMINANCE RATIO OF CENTER TO CIRCUMFERENCE [%] (UNIFORMITY)	32	60

Fig.54



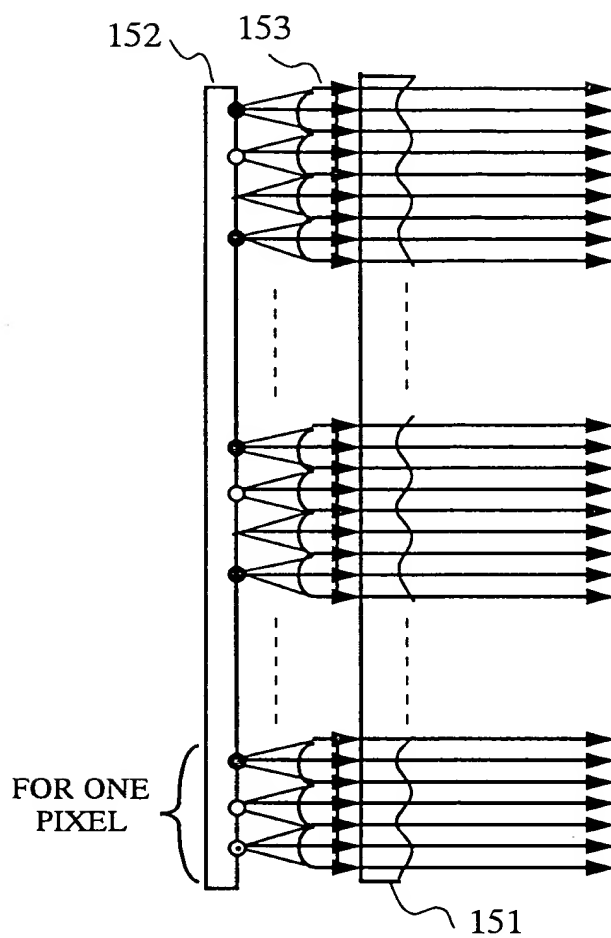
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Fig.55



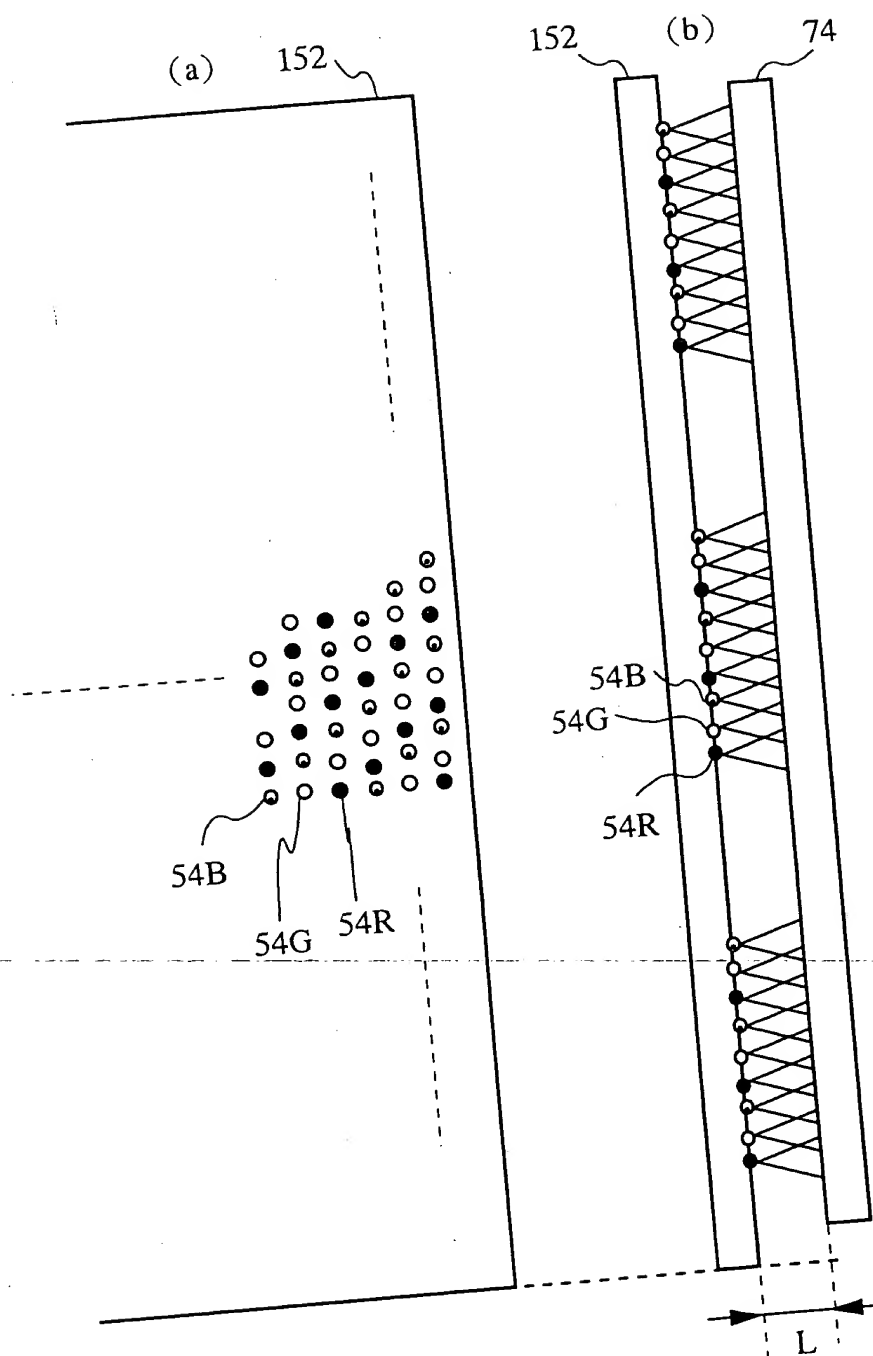
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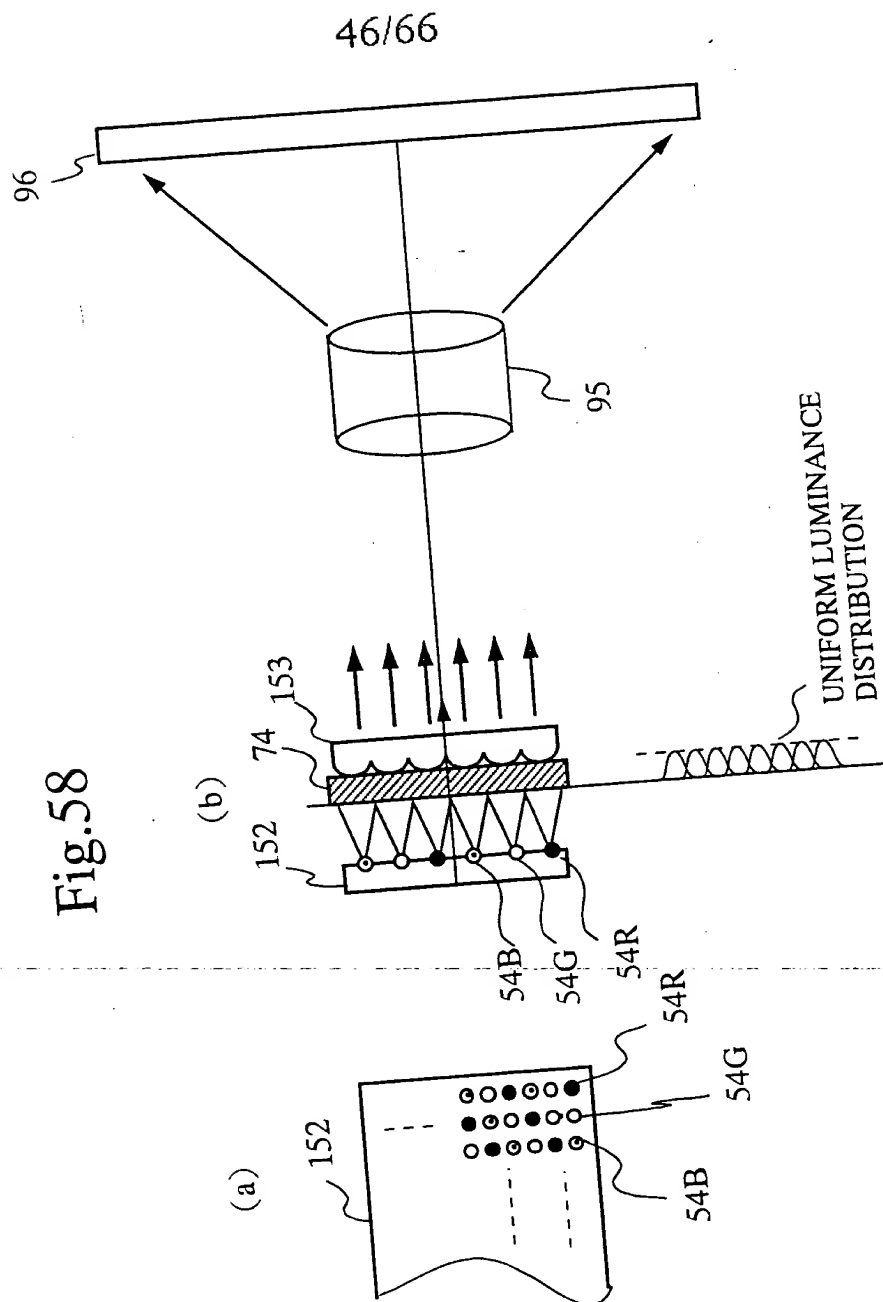
Fig.56



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Fig. 57





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Fig.59

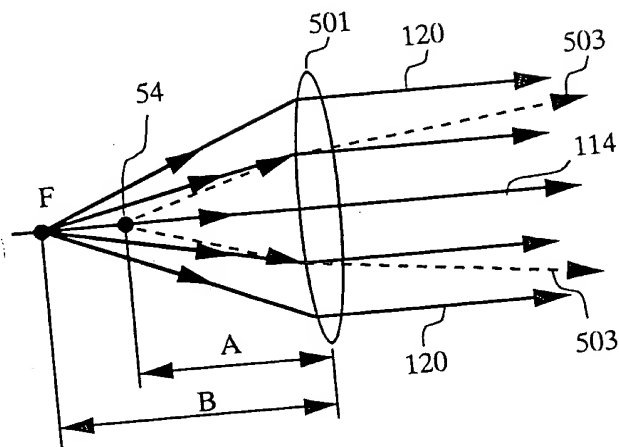
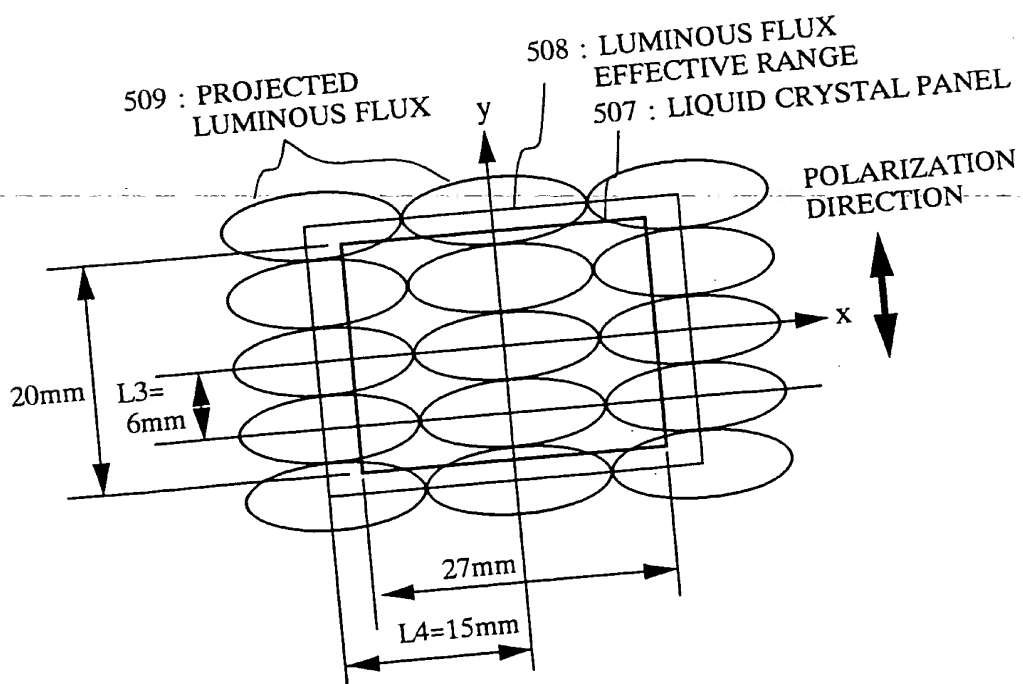
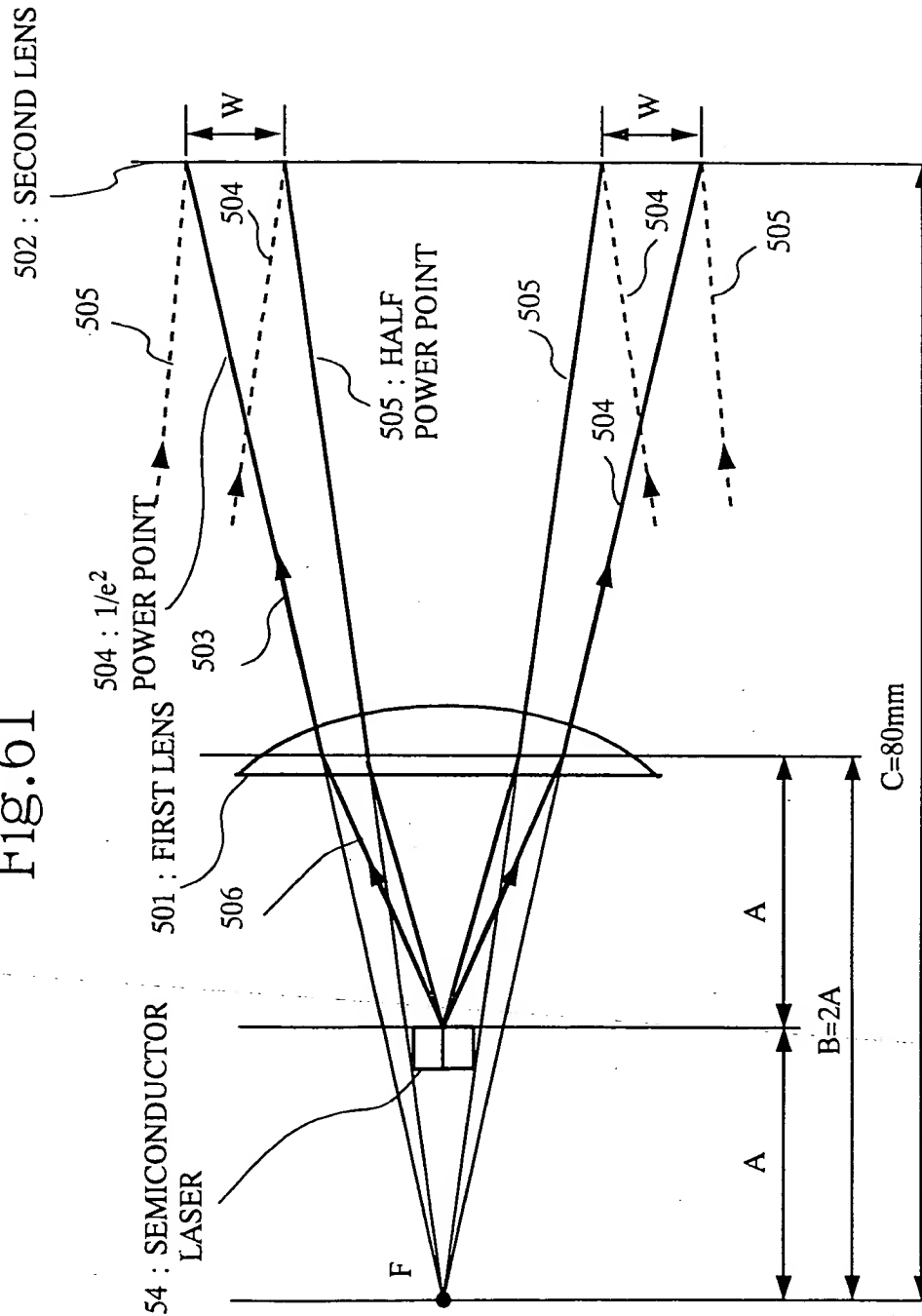


Fig.60



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Fig.61



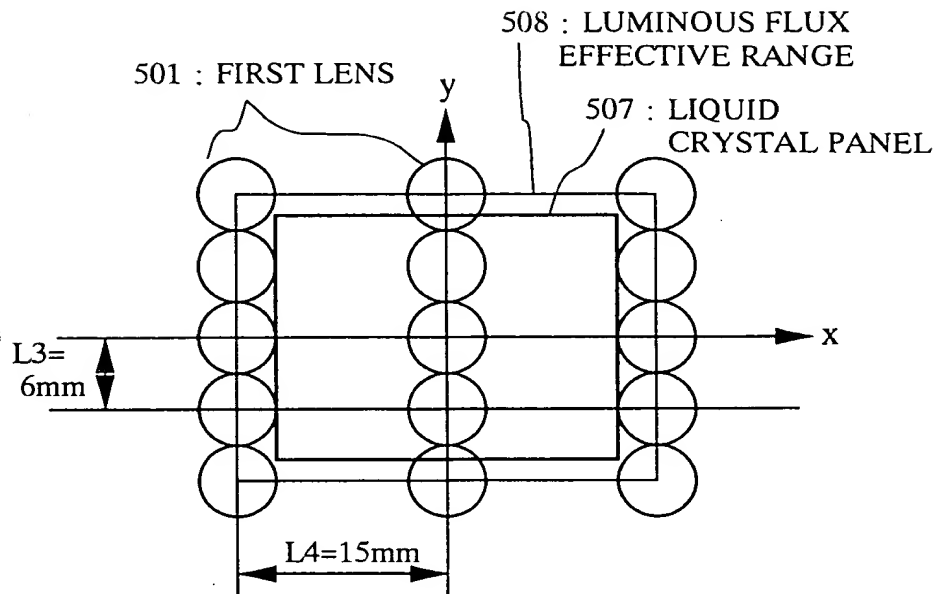
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Fig.62

DESIGN EXAMPLE (UNIT : mm)									
No.	A	B	FIRST LENS				SECOND LENS		
			NARROW ANGLE		WIDE ANGLE		NARROW ANGLE	WIDE ANGLE	HALF(L4)
			HALF(L1)	1/e ²	HALF(L2)	1/e ²			
1	9	18	1.333	2.26	3.371	5.733	6	15	15
2	23	46	3.41	5.79	8.8	15			

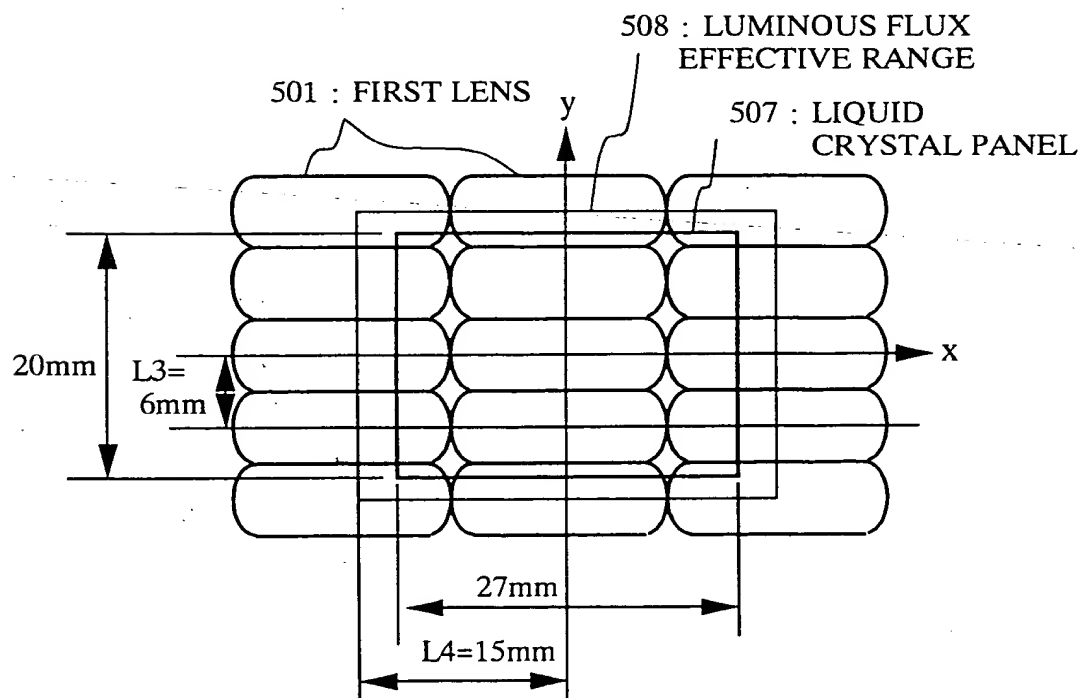
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Fig.63



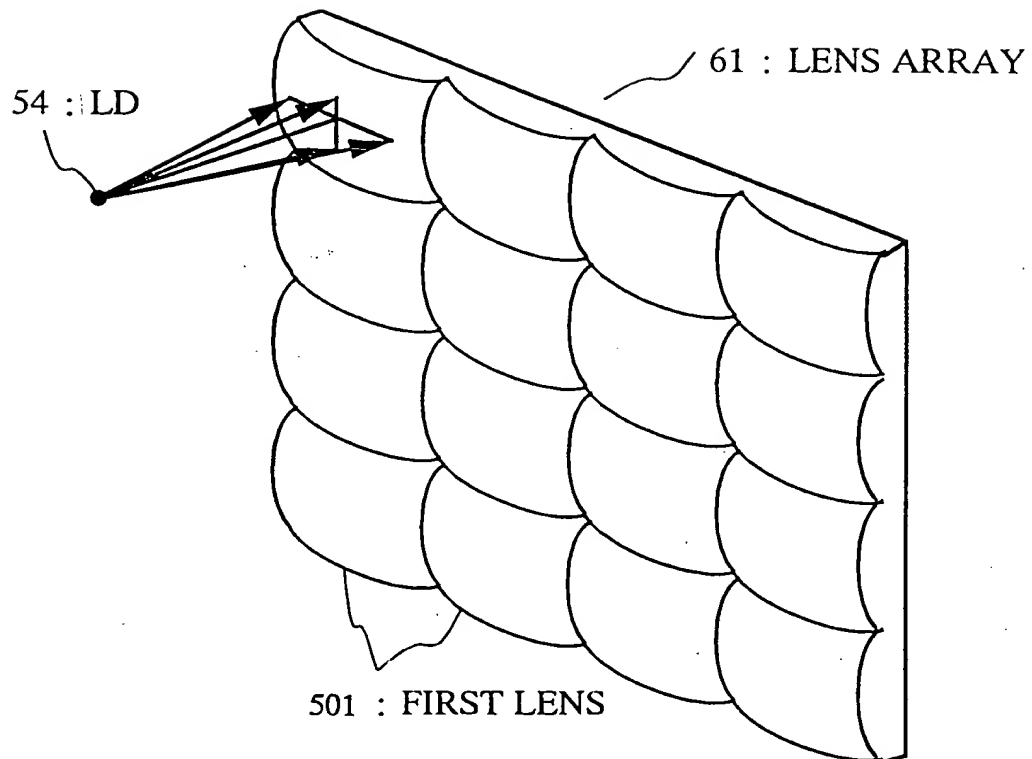
No.1 DESIGN, FIRST LENS ALLOCATION (CIRCLE LENS)

Fig.64

No.2 DESIGN, FIRST LENS ALLOCATION
(A PART OF CIRCLE LENS BEING CUT)

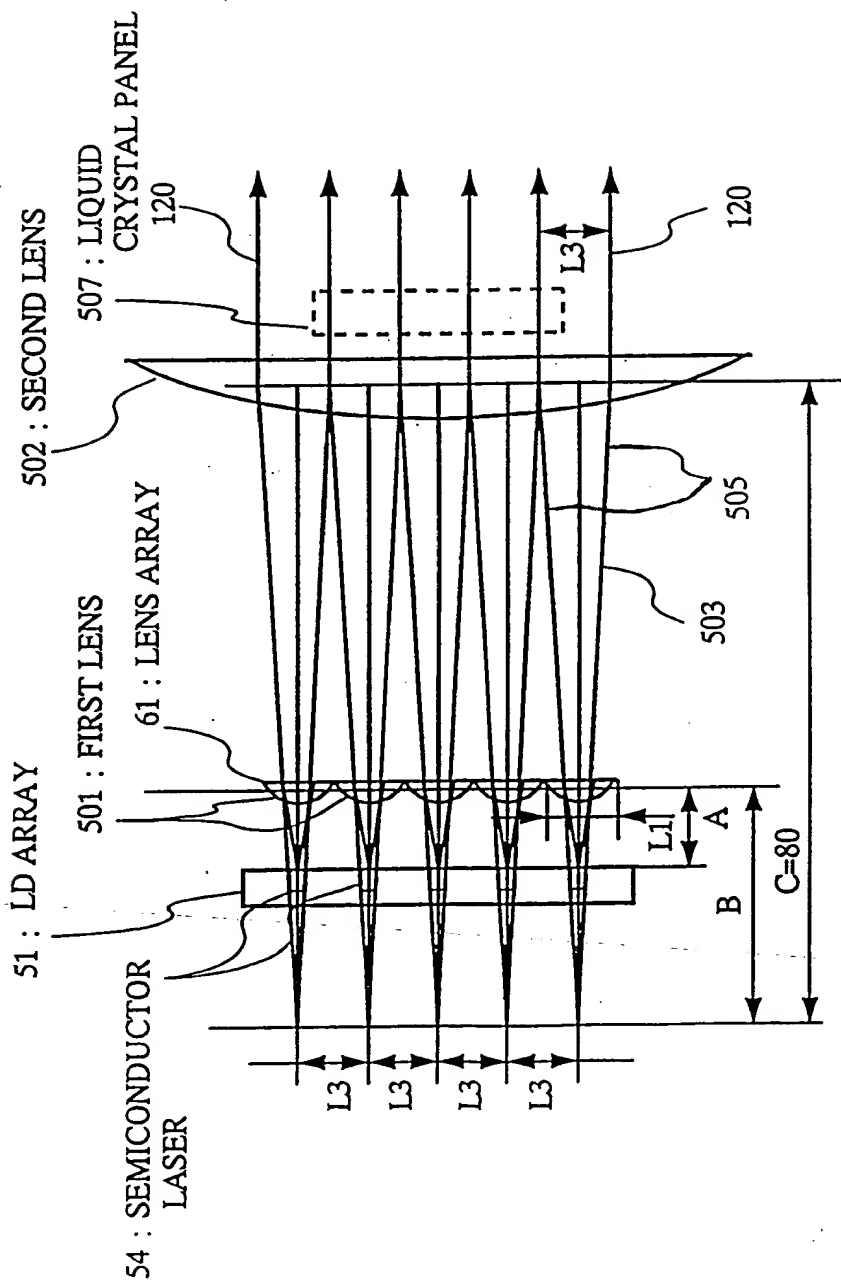
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Fig.65



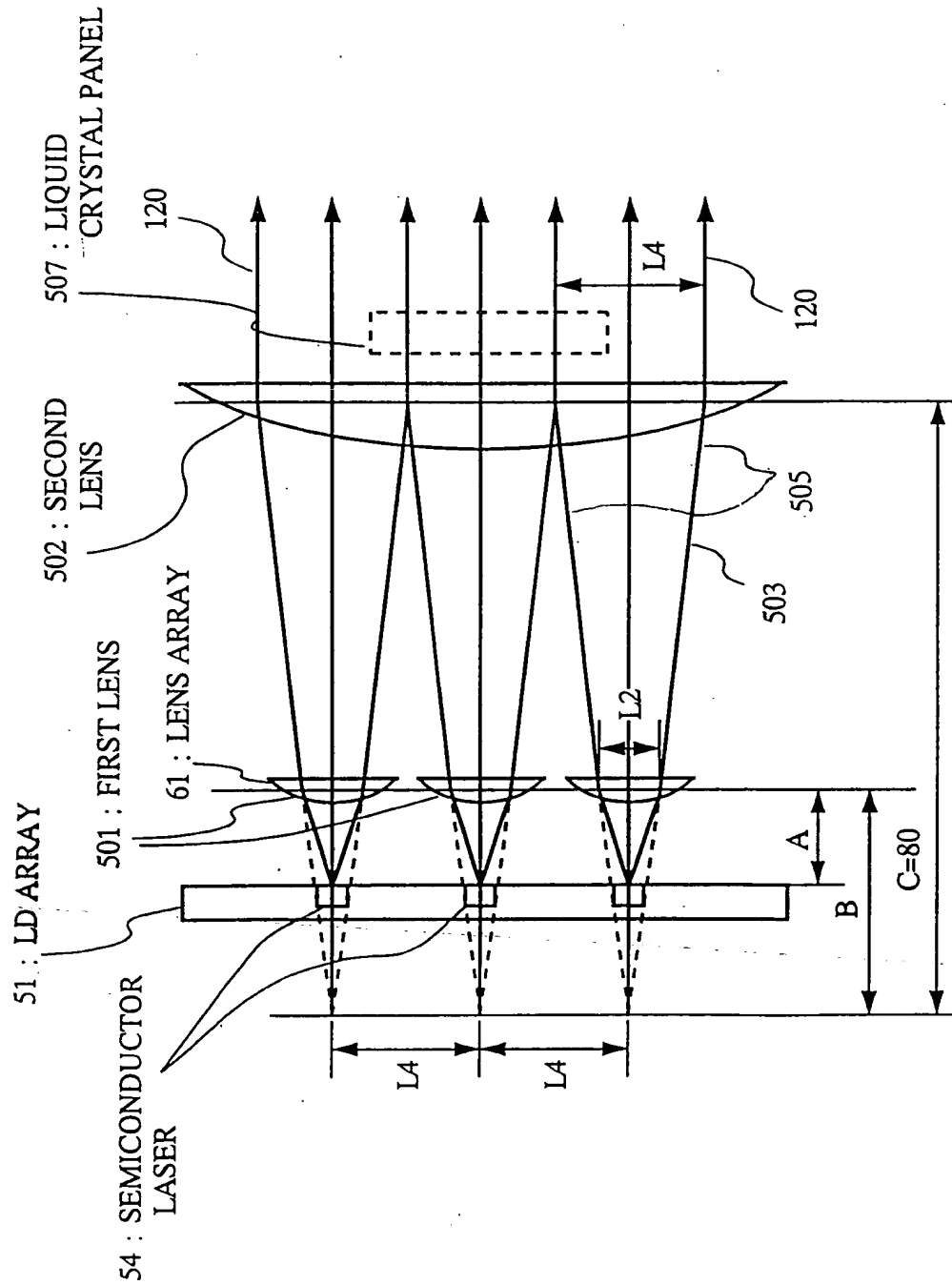
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Fig.66



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Fig.67



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Fig.68

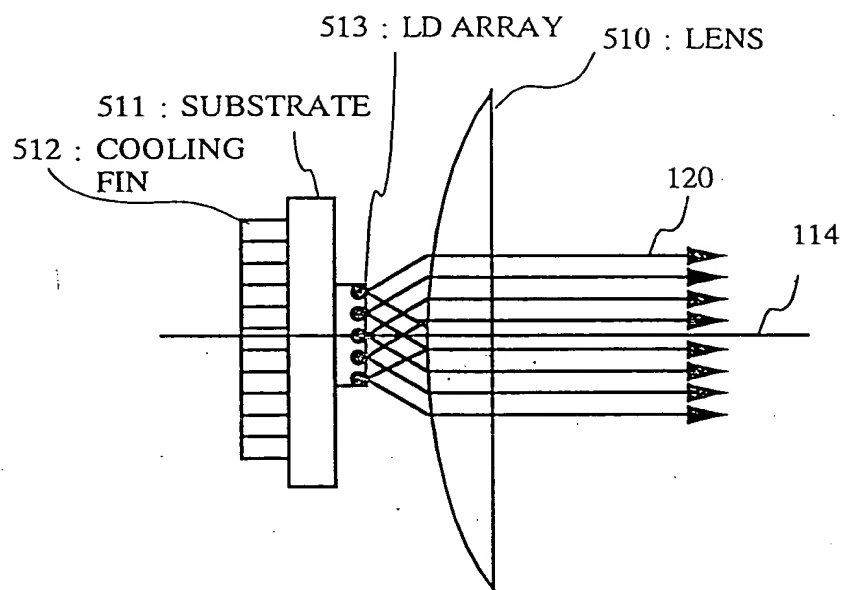
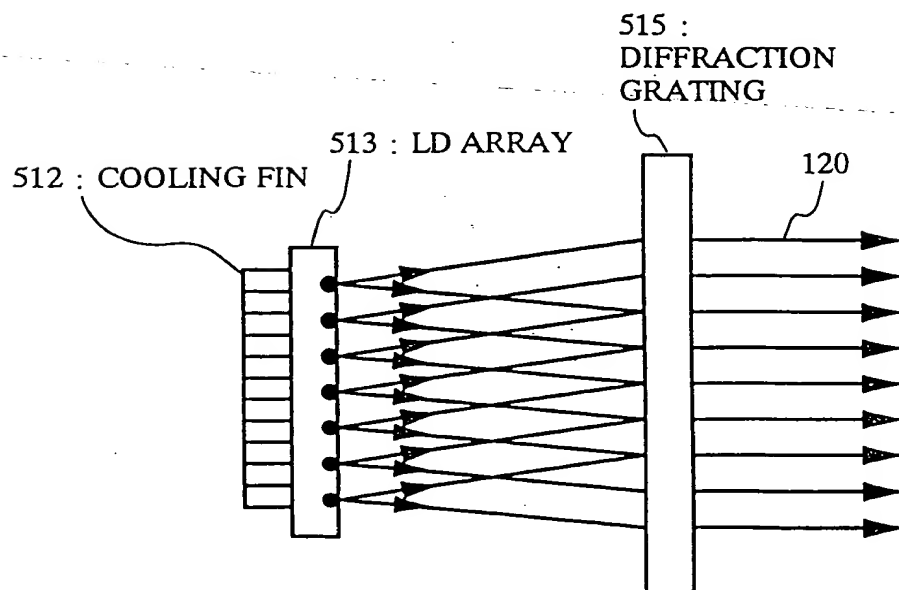


Fig.69



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Fig.70

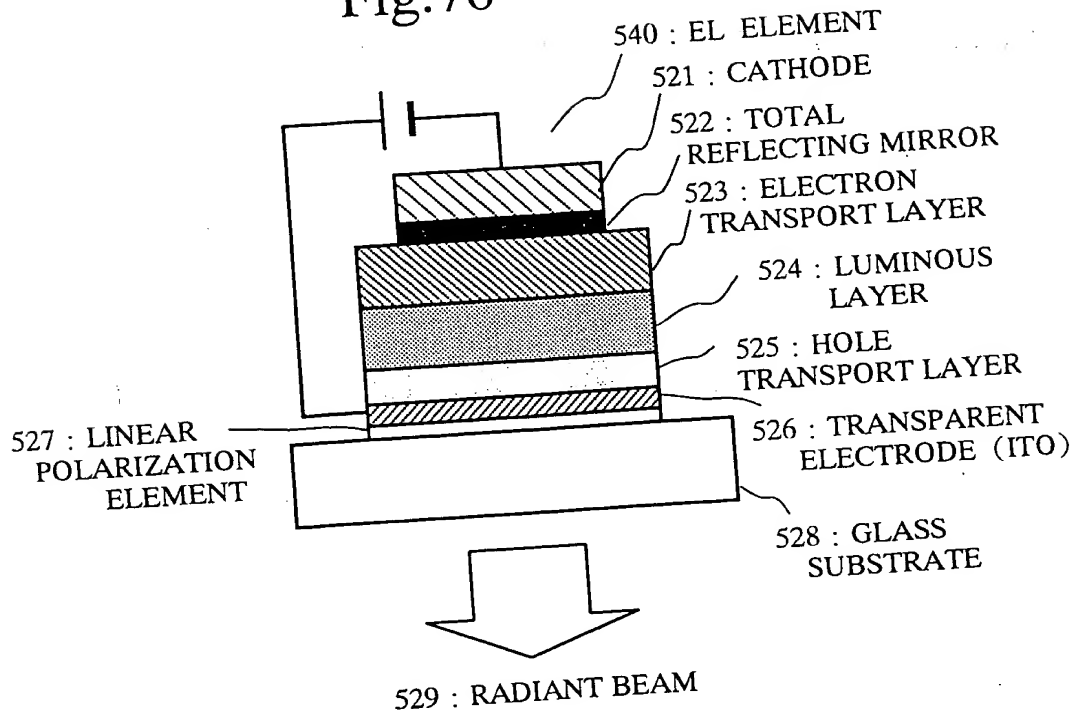
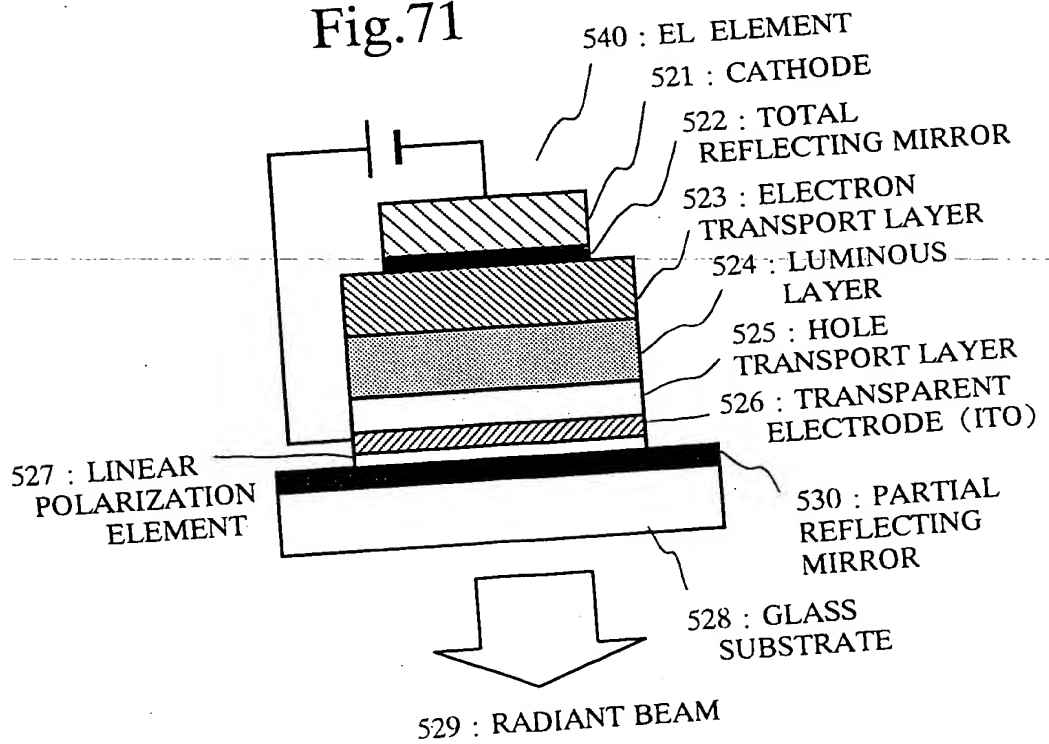


Fig.71



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Fig.72

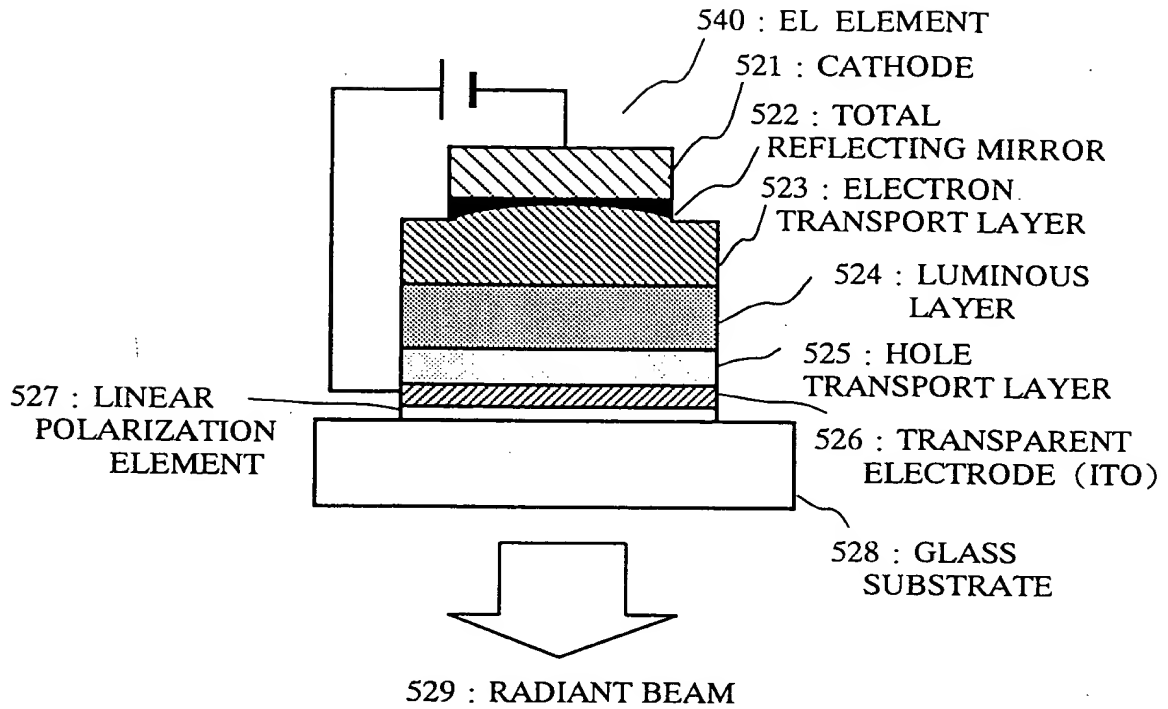
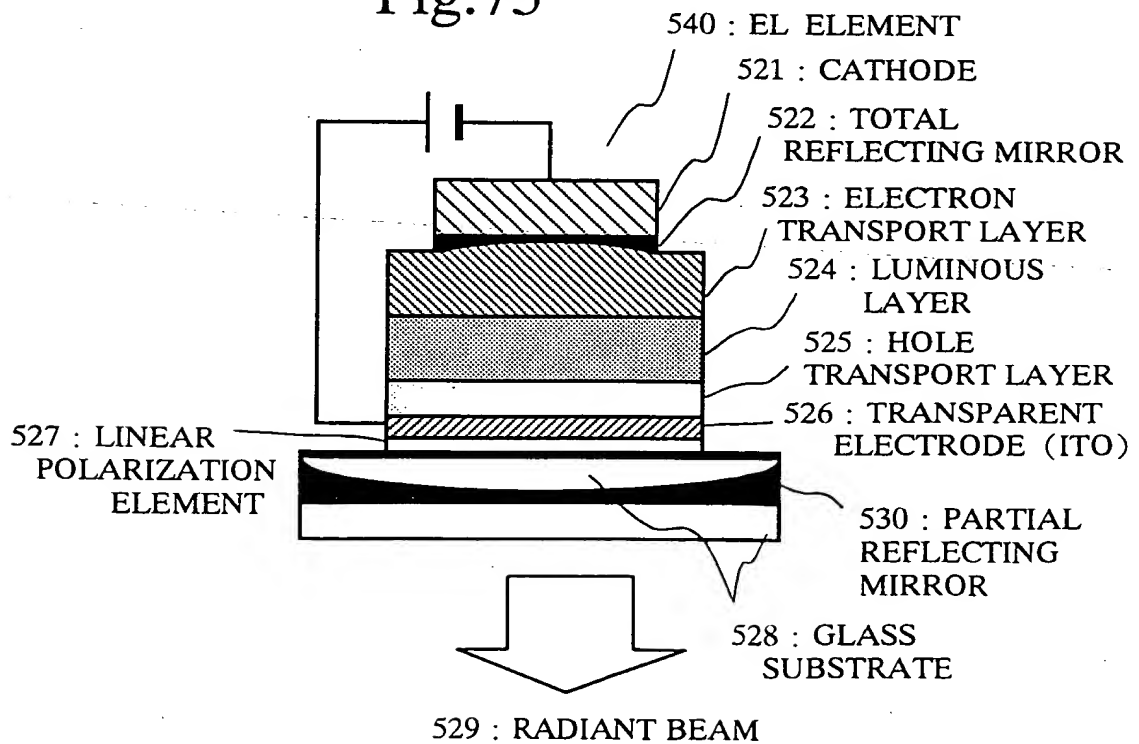
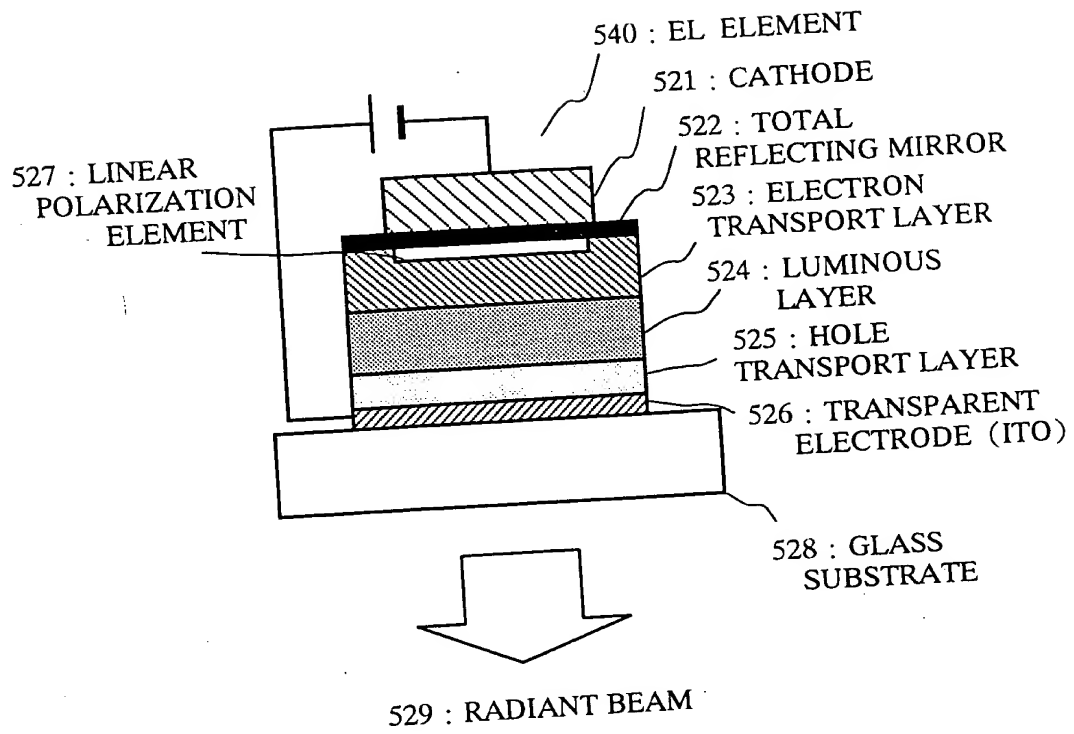


Fig.73



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Fig.74



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Fig.75

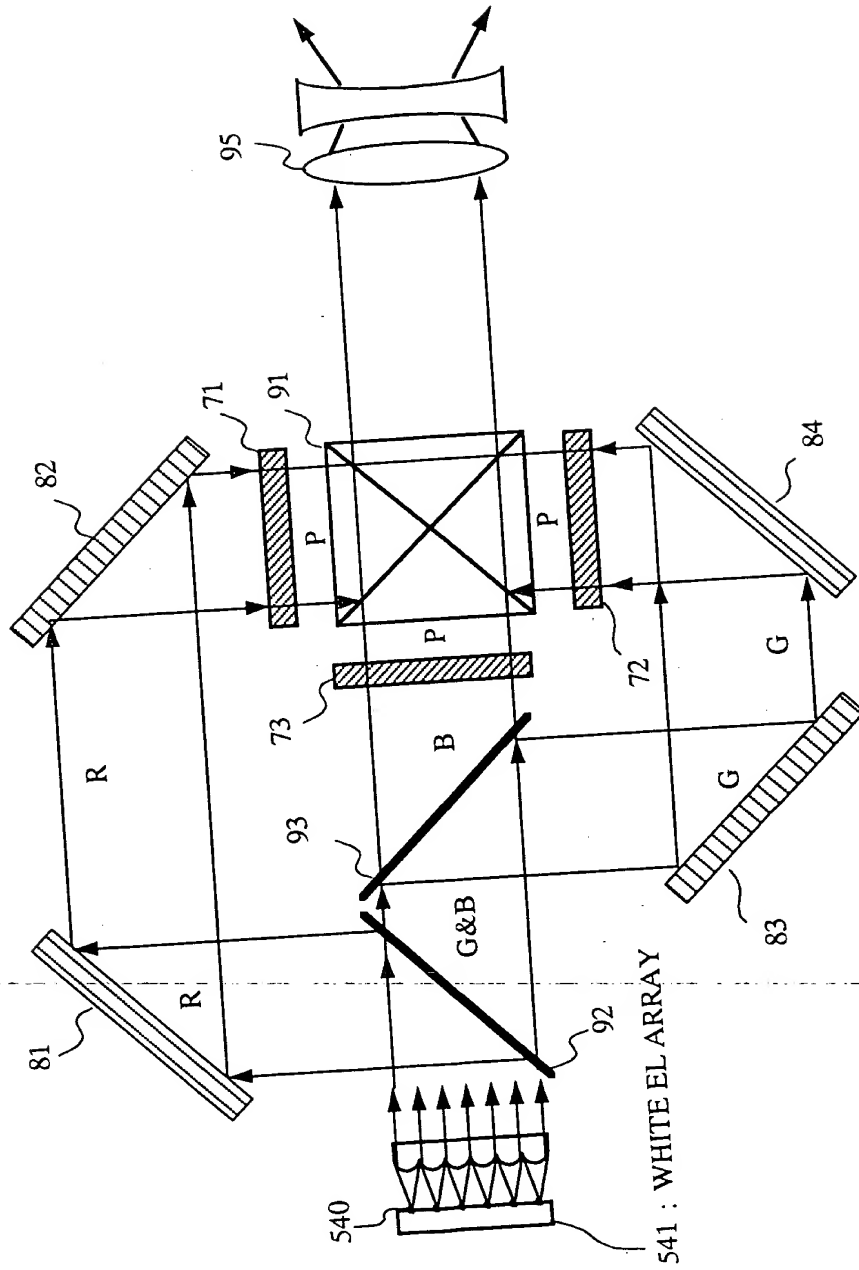
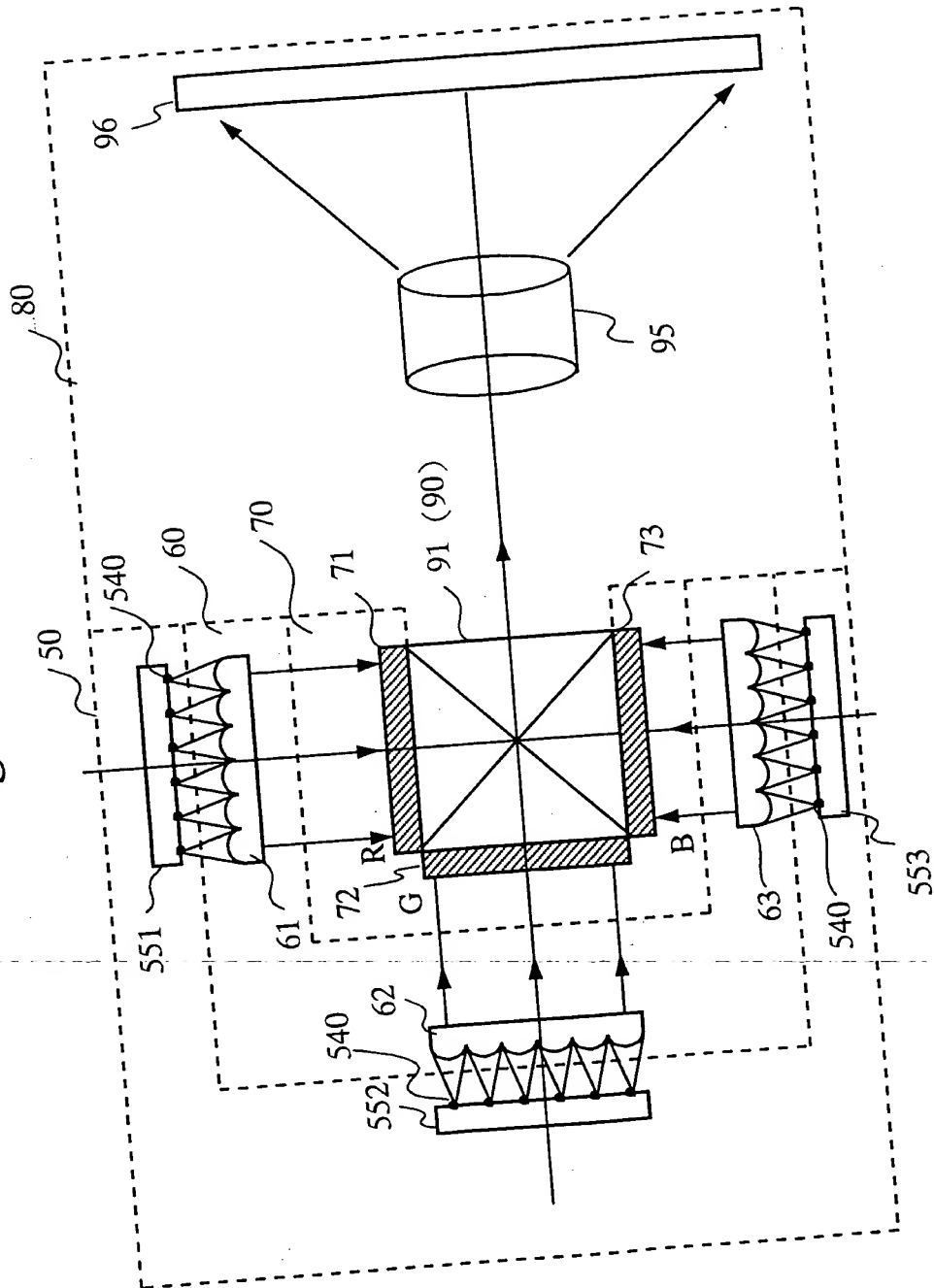


Fig. 76



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Fig.77

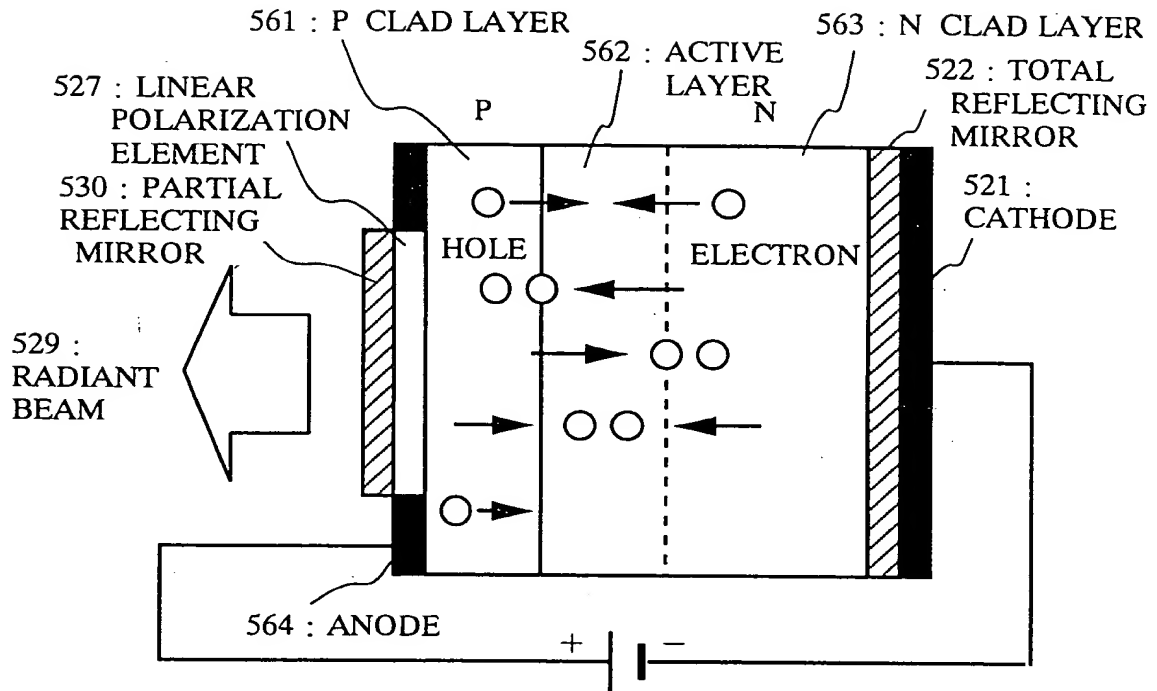
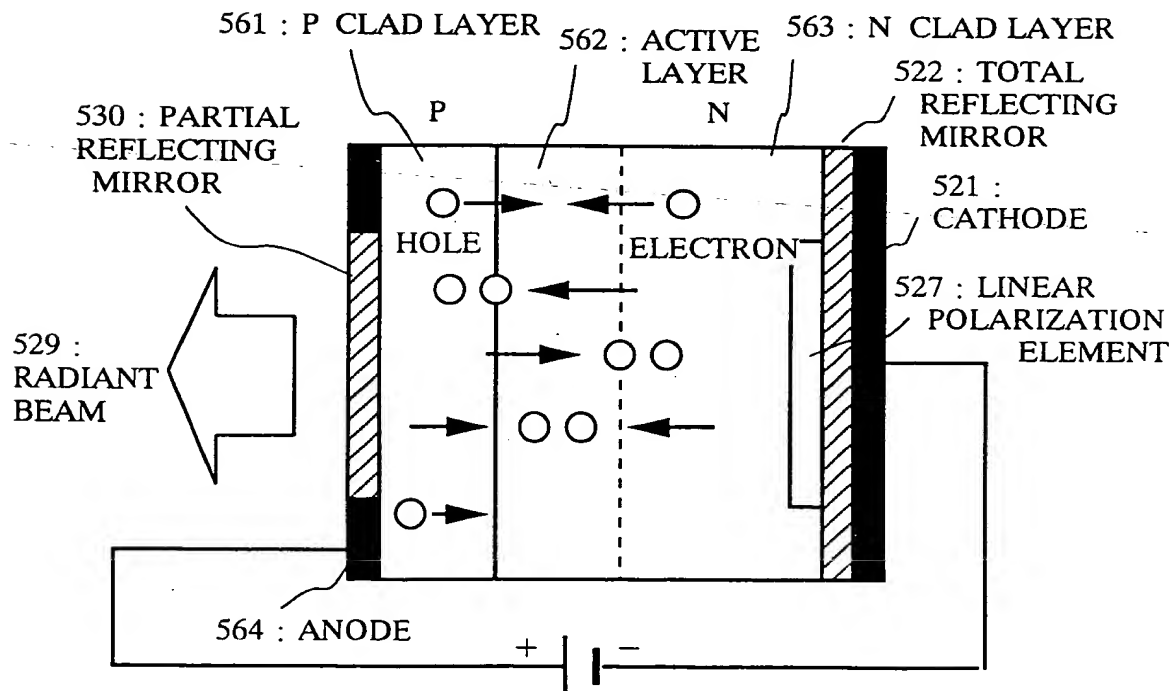


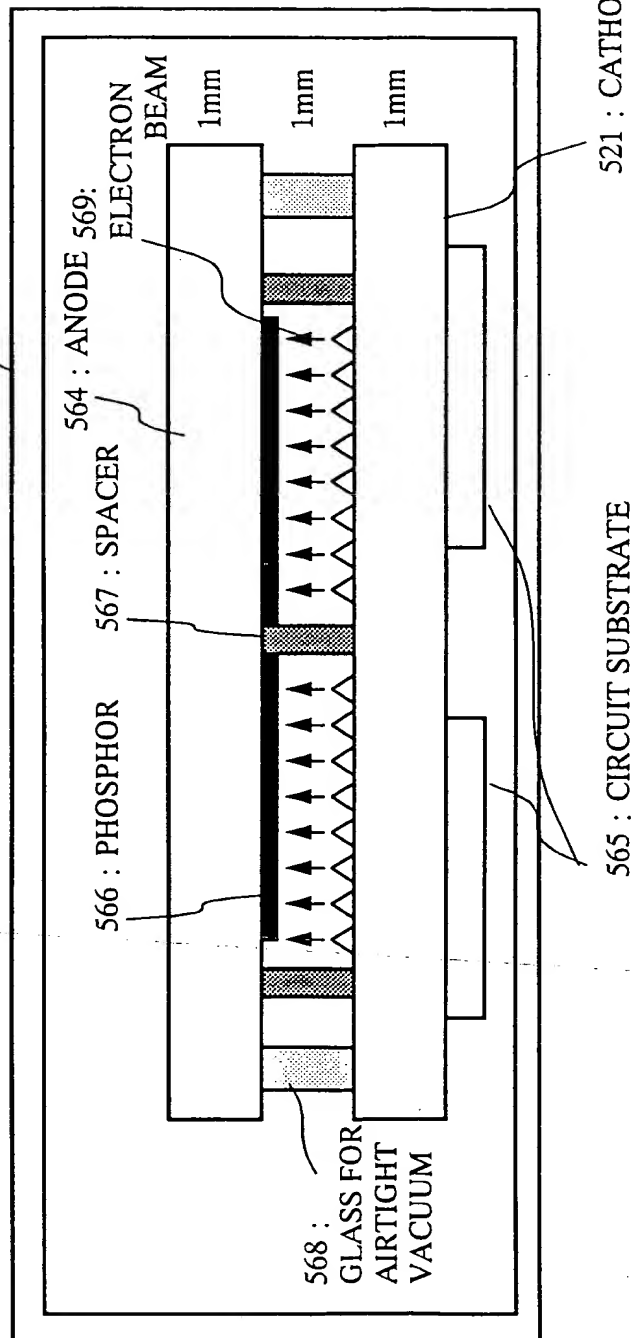
Fig.78



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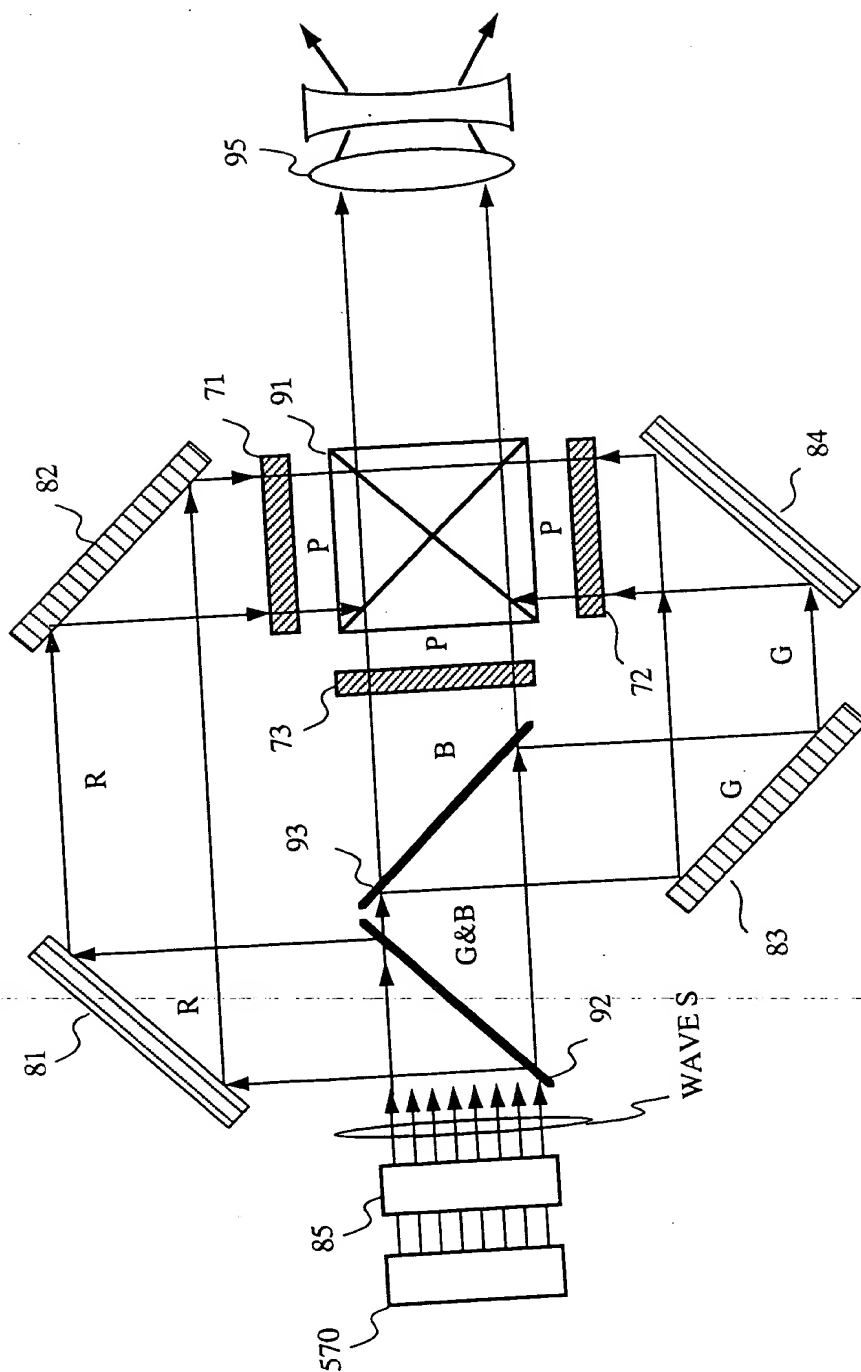
570 : FED

Fig.79



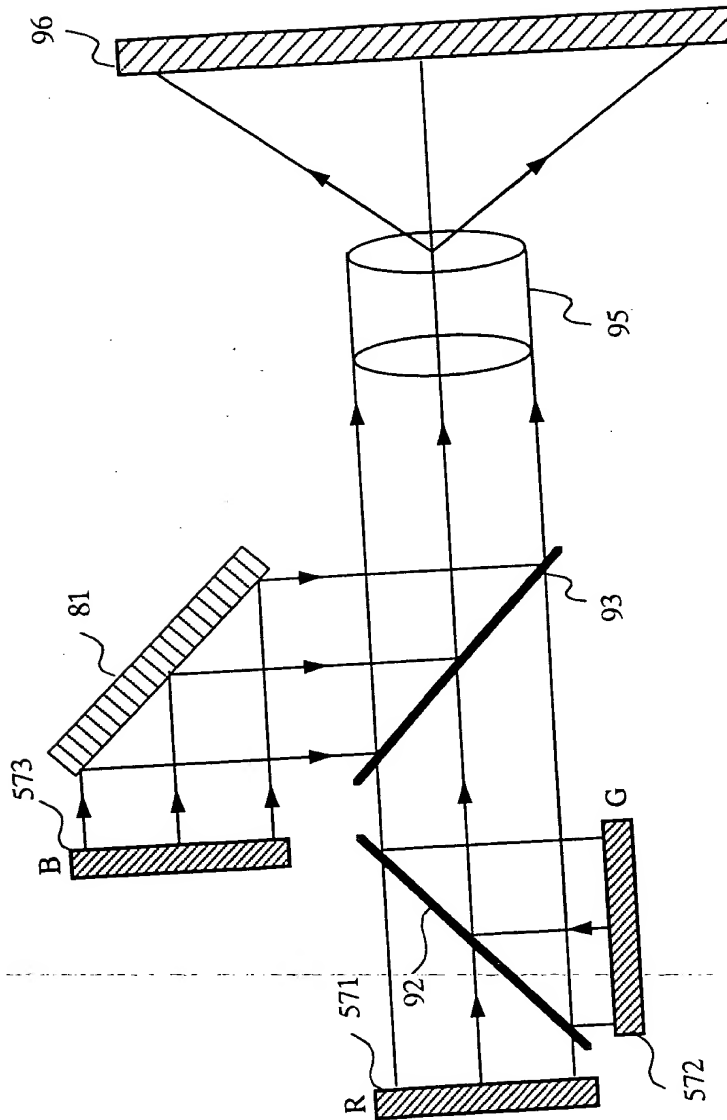
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Fig. 80



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Fig.81



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Fig.82

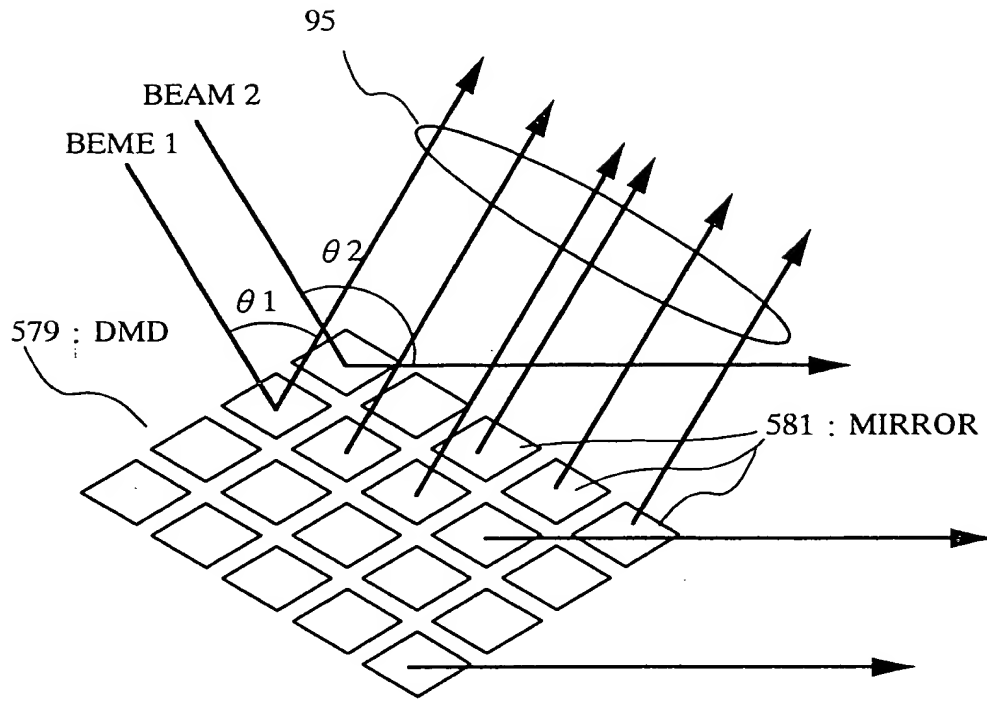
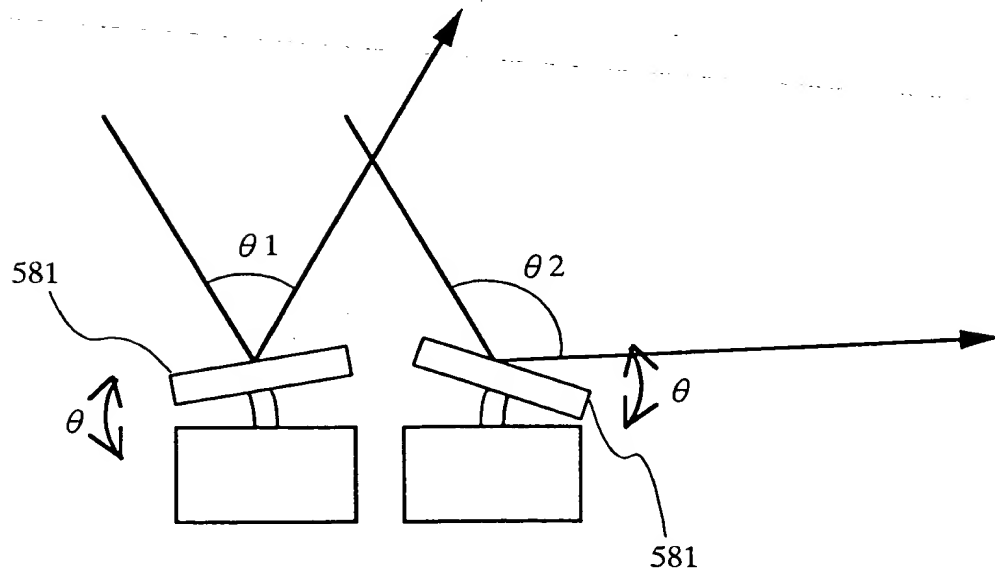
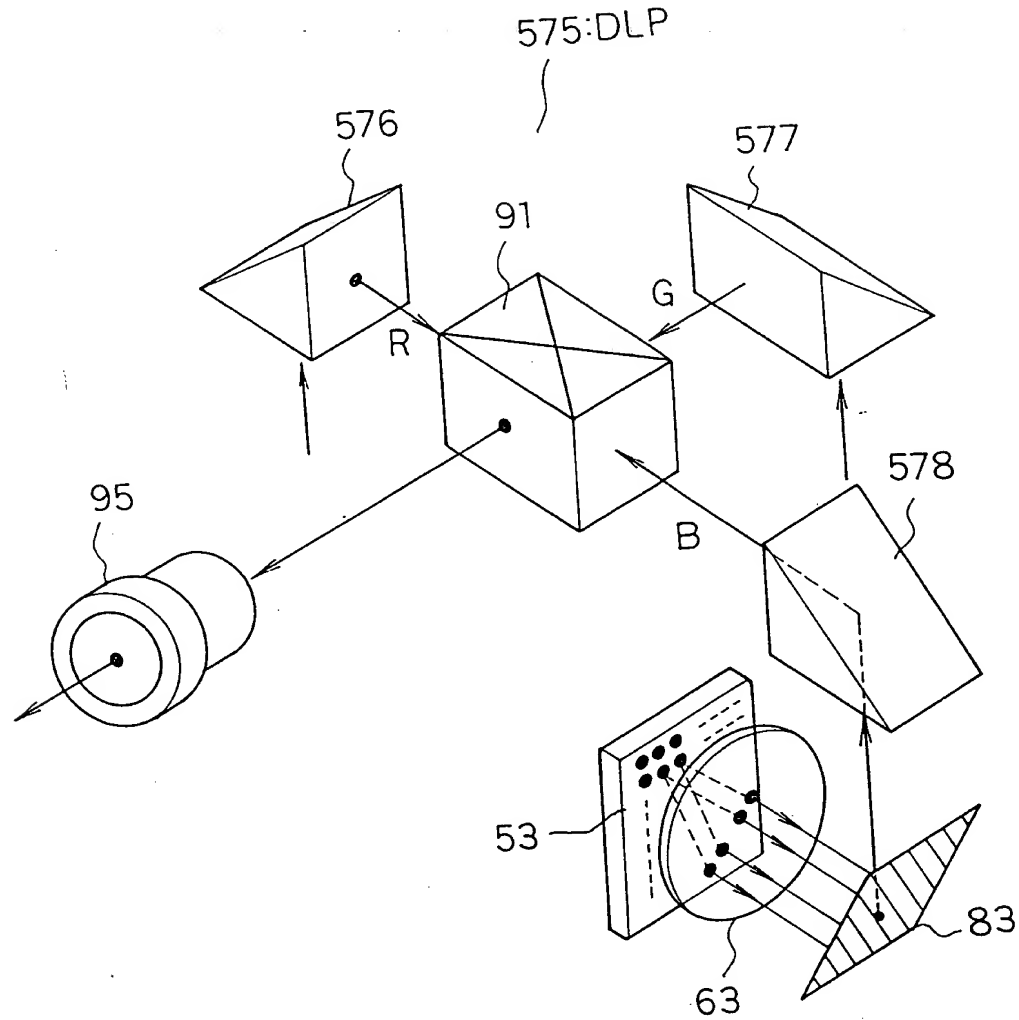


Fig.83



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Fig.84



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Fig. 85

